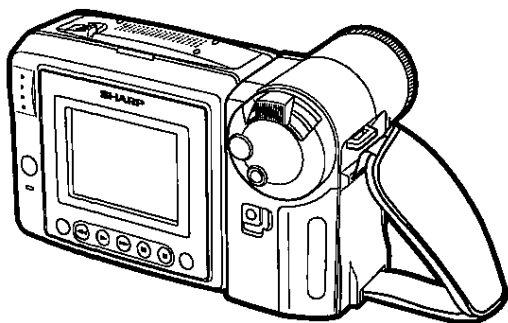


SHARP SERVICE MANUAL

S30Y3VL-A10S/

LIQUID CRYSTAL CAMCORDER Hi 8 PAL



VL-A10S/H/E MODELS VL-AH30S/H/E

In the interests of user-safety (Required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified be used.

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SHARP CORPORATION

1. SPECIFICATIONS

Signal System: PAL standard
Recording System: 2 rotary heads, helical scanning system
Cassette: 8 mm video tape, MP type or Hi8 MP, ME type
Recording/Playback Time: 120 minutes (P5-120)
Tape Speed: 20.051 mm/second
Pickup Device: 1/4" (6.4mm, effective size: 4.5 mm) CCD image sensor (with approx. 320,000 pixels including optical black)
Lens: 16 × power zoom lens (F1.4, f=4.0-64.0 mm), and full-range auto focus
Lens Filter Diameter: 46 mm
Monitor: 3" (7.5 cm) full-color LCD screen (TFT active matrix)
Microphone: Electret monaural microphone
Color Temperature Compensation: Auto white balance with white balance lock
Minimum Illumination: 0.8 lux* (with gain-up, F1.4)
Video Output Level: 1.0 Vp-p 75-ohm unbalanced
Audio Output Level: -8 dBs, impedance less than 2.2 kohms
Speaker Output: 200 mW
Power Requirement: DC 3.6V (with battery pack)
DC 7.0V (with AC adapter)
Power Consumption: 4.9W (during camera recording in full auto mode with zoom motor off and backlight in normal mode)
Operating Temperature: 0°C to + 40°C
Operating Humidity: 30% to 80%
Storage Temperature: -20°C to +60°C
Dimensions (approx.): 183 mm (W) × 109 mm (H) × 99 mm (D)
Weight (approx.): 710g
(without battery pack, lithium battery, video cassette, and lens cap)

AC Adapter (UADP-0313TAZZ)

Power Requirement: AC 110-240 V, 50/60 Hz
DC Output: 7.0 V
Power Consumption: 15 W
Dimensions (approx.): 68 mm (W) × 37 mm (H) × 130 mm (D)
Weight (approx.): 233 g

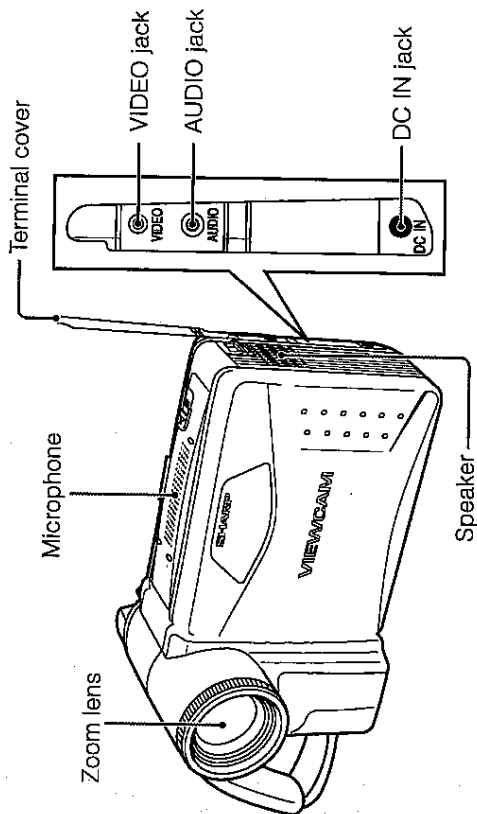
Specifications are subject to change without notice.

*Minimum illumination: Since there is no widely accepted testing procedure for determining minimum illumination capability, lux ratings are comparable only between models from the same manufacturer.

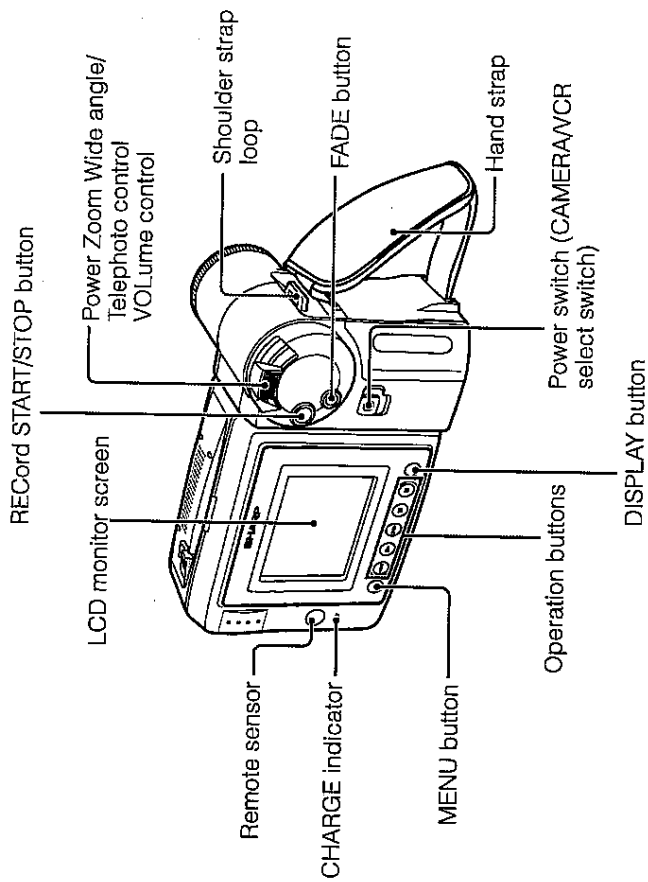
2. PART NAMES AND FUNCTION

For details on the use of each control.

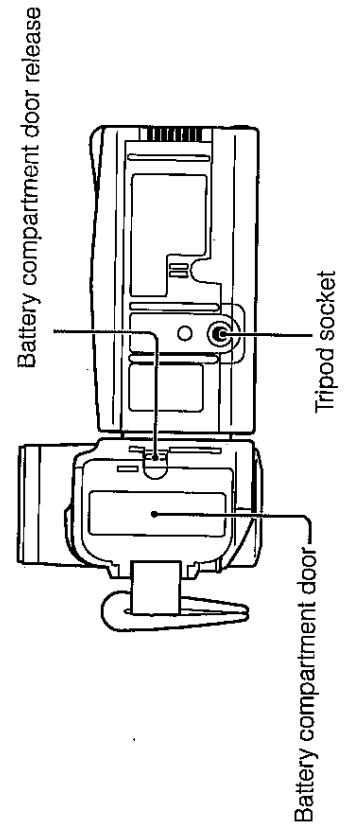
Front view



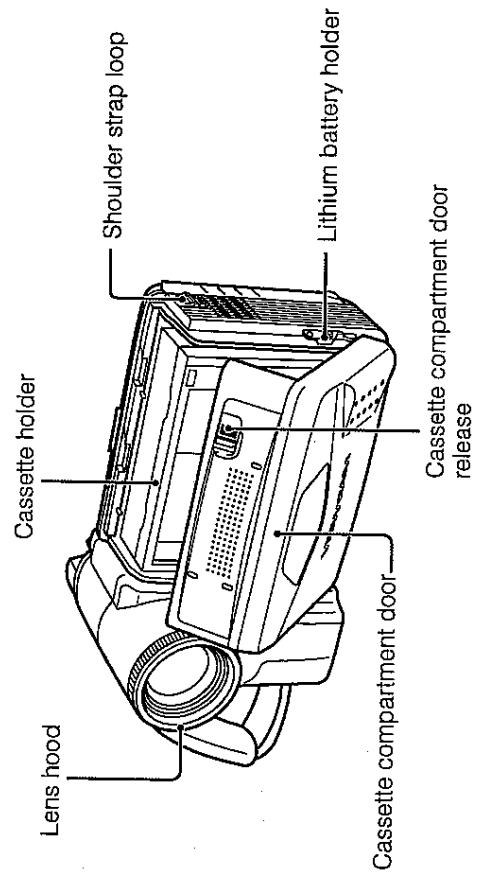
Rear view



Bottom view

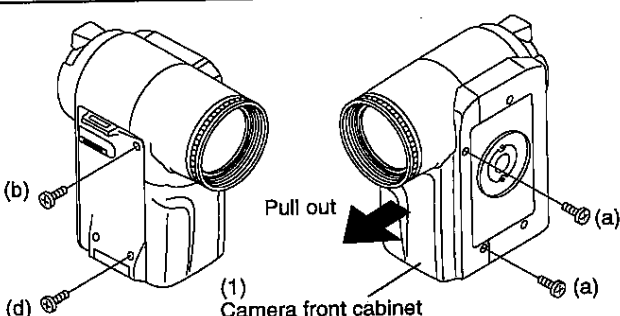
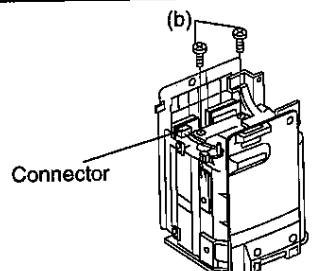
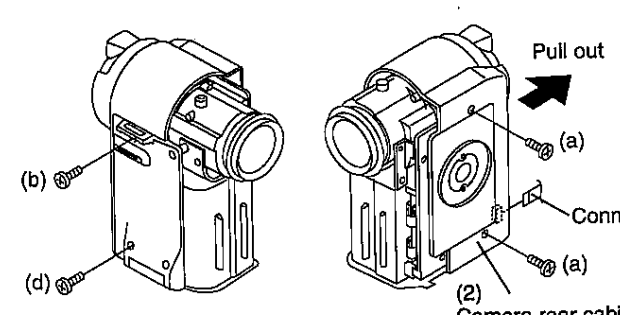
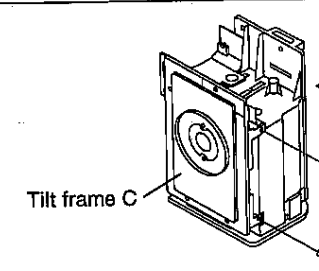
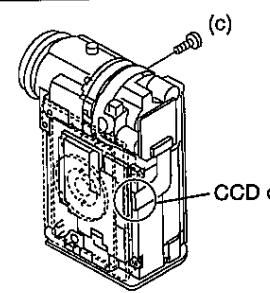
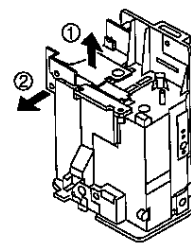
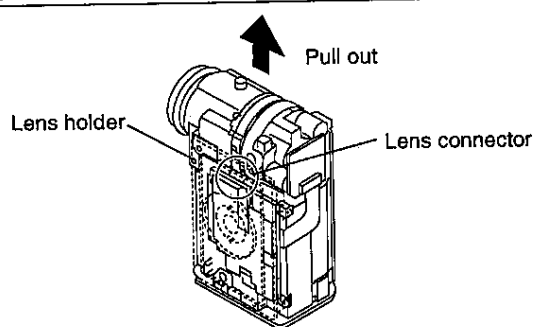
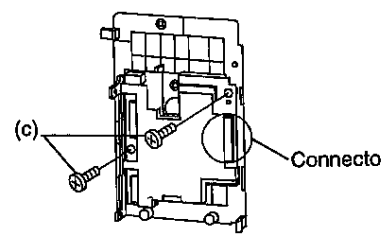
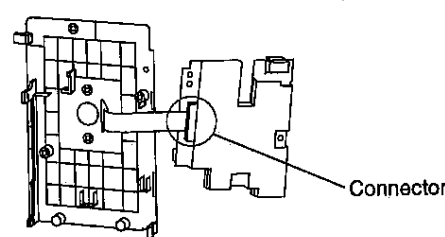


3 When the cassette compartment door is open



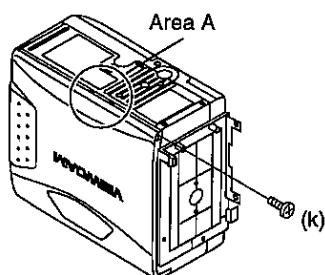
3. DISASSEMBLY OF THE SET
3-1. REMOVAL OF THE CAMERA SECTION

Note:
Before removing the cabinet, turn off the power supply, and ascertain that the battery has been removed.

 1. Remove one screw ((d)XiPSF20P04000), one screw ((b)LX-HZ0018TAFN), two screws ((a)LX-HZ0018TAFN), and pull out the camera front cabinet (1).	 5. Remove the connector of the 6-cell detection switch, and remove two screws ((b)LX-HZ0018TAFN) fixing the battery catcher.
 2. Remove one screw ((b)LX-HZ0018TAFN), one screw ((d)XiPSF20P04000) and two screws ((a)LX-HZ0018TAFN) and pull out the camera rear cabinet (2) backwards. Remove the FPC in the camera rear cabinet.	 6. Remove two screws ((b)LX-HZ0018TAFN) and pull out the camera side cover from the tilt frame C.
 3. Firstly, remove the CCD connector from the Camera PWB, then remove one screw ((c)LX-HZ0045TAFN), the reverse side in this figure (Not remove the lens holder in this section).	 7. Remove the battery catcher from the camera side cover.
 4. Pulling the lens holder, and pull out the lens upwards. Then, remove the lens connector.	 8. Remove one connector of the camera PWB, and remove two screws ((c)LX-HZ0045TAFN) fixing the PWB.
	 9. After removing the camera PWB from the tilt frame, remove the connector on the rear of the PWB.

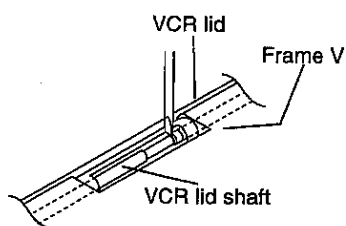
3-2. DISASSEMBLY OF THE VCR MAIN BODY

<1. Removal of the VCR lid shaft>

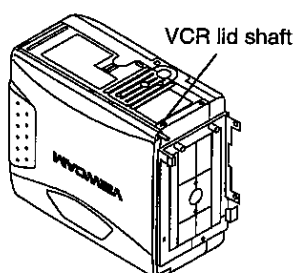


(1) Remove one screw ((k)LX-HZ0063TAFC).

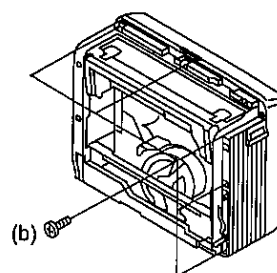
<Detail of area A>



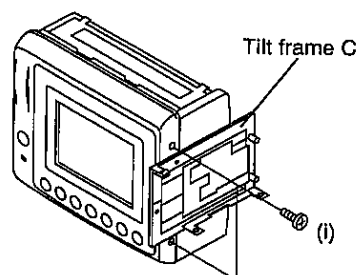
(2) Bring the jig (example: slotted precision screwdriver) into contact with the removal groove of the VCR lid shaft, and slide the screwdriver with care to prevent injuring the VCR lid and frame V.



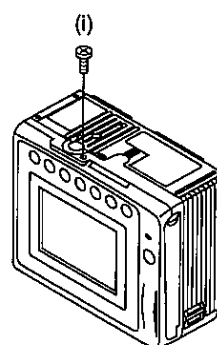
(3) Pull out the VCR lid shaft head which projects beyond the surface of the VCR lid.



(2) Remove five screws ((b)LX-HZ0018TAFF).

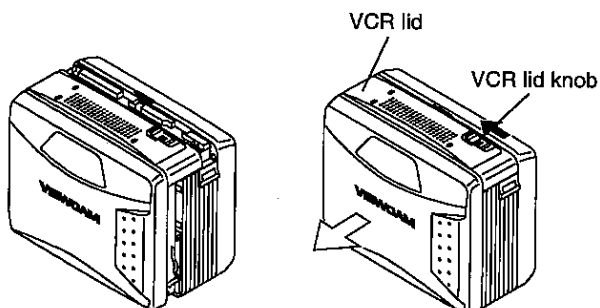


(3) Turn the tilt frame C so that the screwdriver can be easily inserted, and remove two screws ((i)XiPSN20P04000).

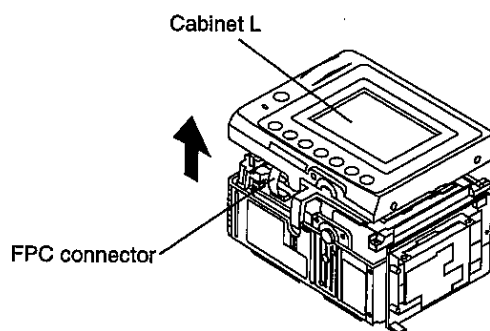


(4) Remove one screw ((i)XiPSN20P04000).

<2. Disassembly of the cabinet L>

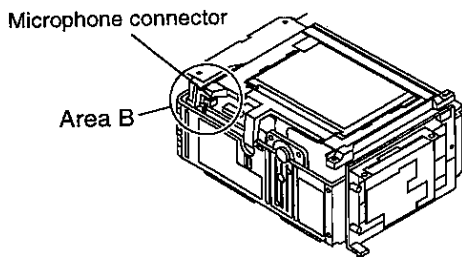


(1) Slide the "VCR lid knob" in the arrow direction, and slide the VCR lid in the arrow direction as far as the cabinet L fastening screw is visible. (Left figure) Since the connector of the microphone is still connected, take care to prevent excessively sliding the VCR lid.



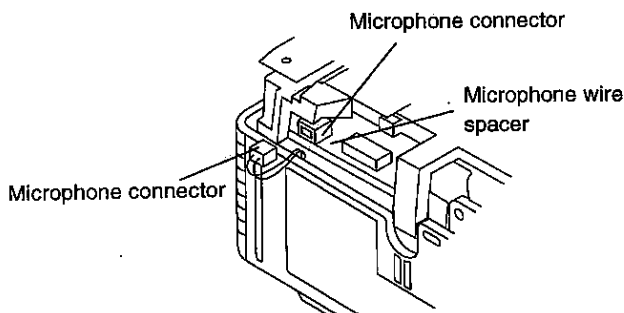
(5) Remove the cabinet L to the midway, and disconnect the FPC connector.

<3. Removal of the VCR lid>



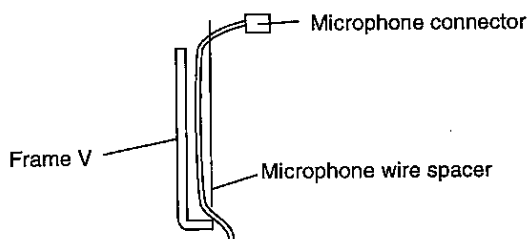
- (1) Disconnect the microphone connector.

<Detail of area B>

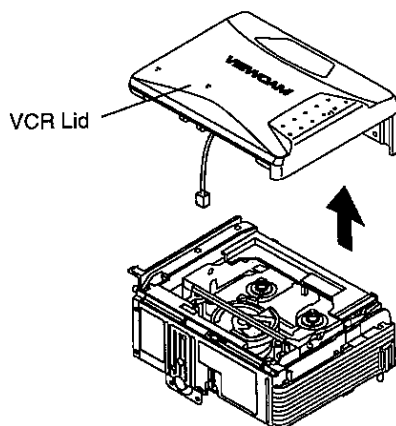


- (2) Remove the connector cable from the hole of the microphone wire spacer.

<Detail of area B>

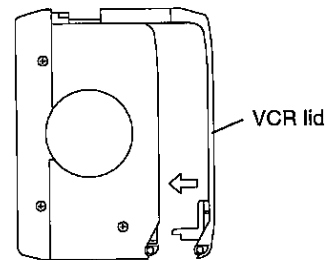


- (3) Remove the microphone wire spacer from the Frame V.



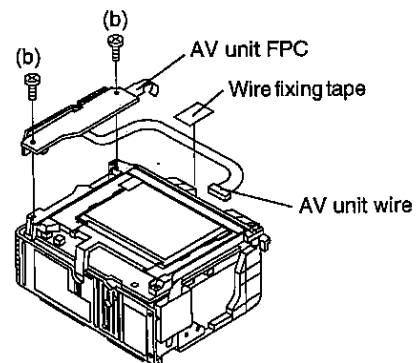
- (4) Pull out the microphone wire cable with care to prevent it from interfering with the mechanical parts, and remove the VCR lid.

Caution for installation of the VCR lid



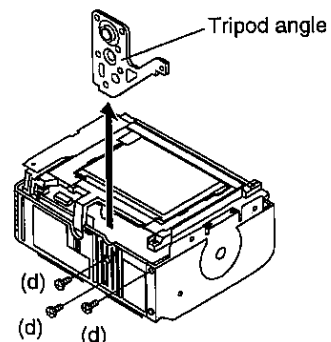
When installing the VCR lid, move the VCR lid in the arrow direction, keeping the VCR lid parallel to the main body as shown above.

<4. Removal of the AV unit and AV unit cover>

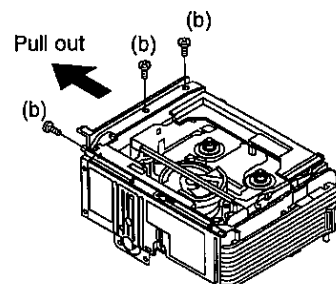


- (1) Peel the wire fixing tape.
(2) Remove the AV unit wire.
(3) Remove the AV unit FPC.
(4) Remove two screws ((b)LX-HZ0018TAF) fixing the AV unit and LCD holder.

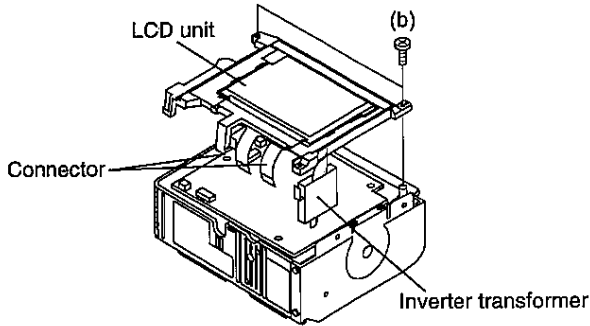
<5. Disassembly of the LCD holder>



- (1) Remove three screws ((d)XiPSF20P04000) pull out the tripod angle.

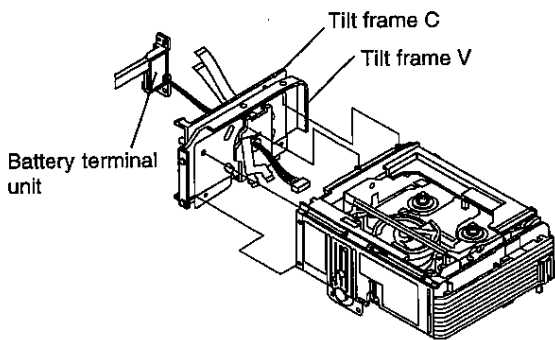


- (2) Remove three screws ((b)LX-HZ0018TAF) on the tilt frame V.
Move the tilt frame V by a looseness of the tilt FPC.



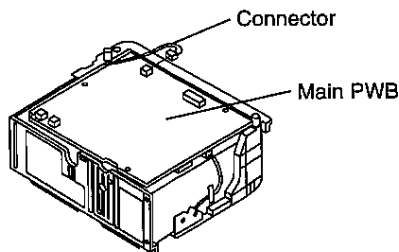
- (3) Remove two screws ((b)LX-HZ0018TAFF) and two connectors, and remove the LCD unit (with inverter) from the main body.

<6. Removal of the tilt unit>

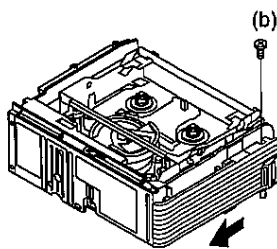


- (1) Disconnect three connectors. Remove the tilt unit from the cabinet of the main body.

<7. Removal of the speaker cover>

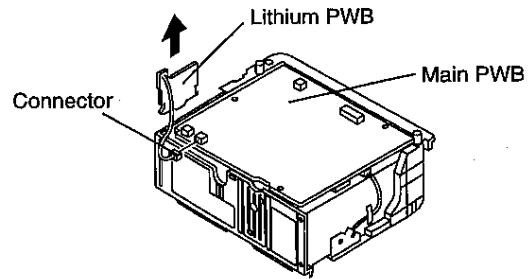


- (1) Remove the connector of the speaker from the Main PWB.



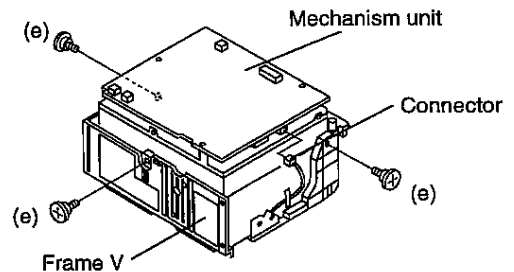
- (2) Remove the screw ((b)LX-HZ0018TAFF) fixing the speaker cover.
(3) Move the speaker holder in the direction of the arrow to remove it.

<8. Removal of the Lithium PWB>



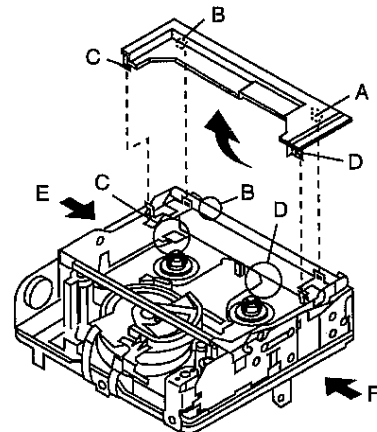
- (1) Remove the connector of the Lithium PWB from the Main PWB.
(2) Move the lithium unit in the direction of the arrow.

<9. Disassembly of the frame V>



- (1) Remove three screws ((e)LX-BZ0191TAFD) and one connector, and remove the frame V from the main body.

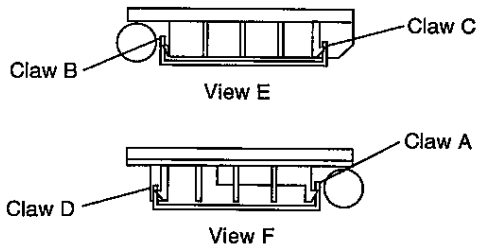
<10. Removal of the cassette compartment lid>



- (1) Using the slotted precision screwdriver, push and turn the two claws (C and D) which fasten the cassette compartment lid, and the cassette compartment lid will be removed from the hook area of the cassette component.
(2) Turning the cassette compartment lid in the arrow direction, lift it, and the claws A and B will be disengaged to remove the cassette compartment lid.

Note:

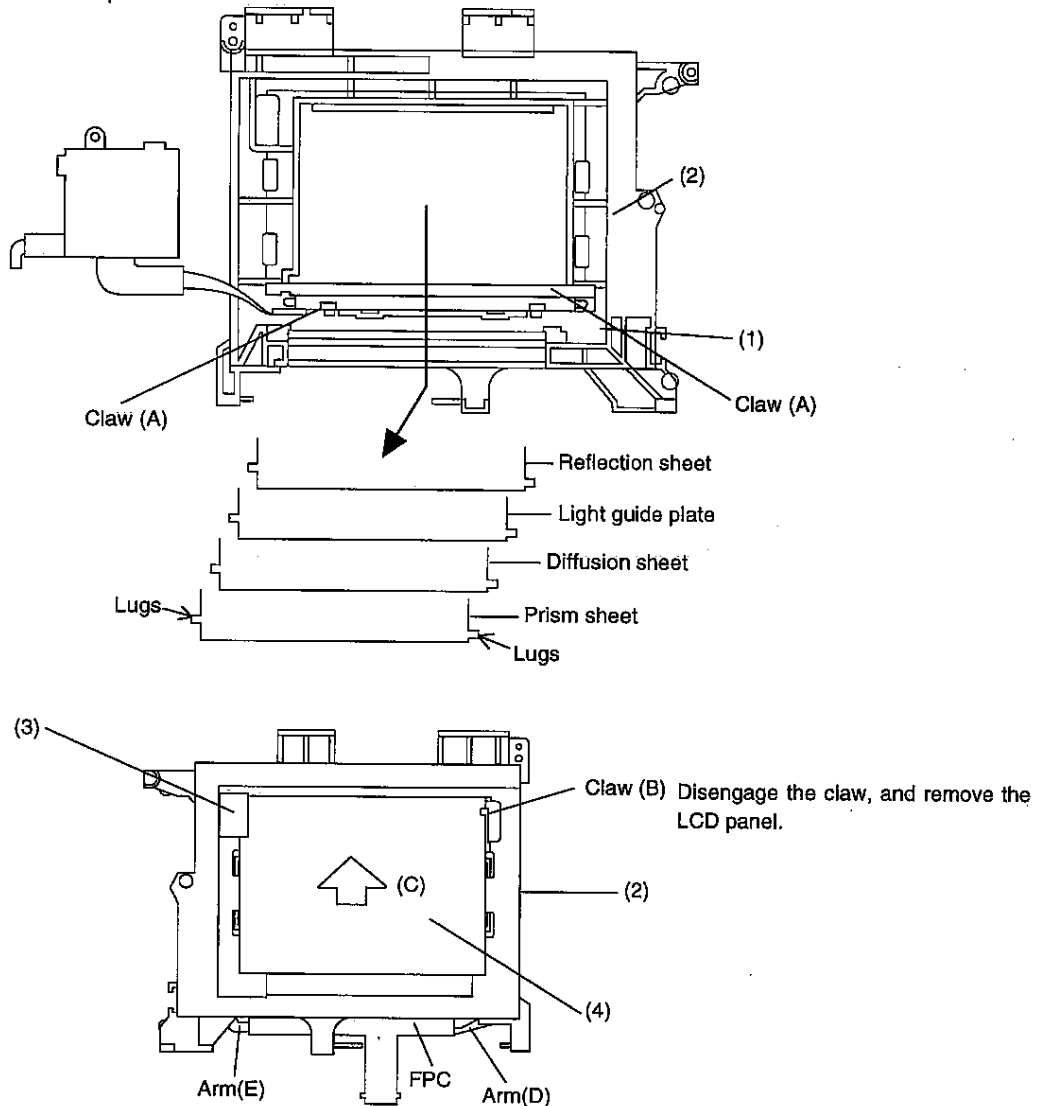
Take care to prevent breaking the claws of the cassette compartment lid.



Note:

When fixing the cassette compartment lid, first engage the claws A and B, and then engage the claws C and D, verify that the four claws (A, B, C and D) of the cassette compartment lid are securely engaged as shown in the view above.

<11. Disassembly of the LCD panel>



1. Disengage two claws (A), and remove the lamp inverter unit (1) from the LCD holder (2).
2. Remove the sheets from the LCD holder (2).
3. Pull the LCD glass retaining (3).
4. Remove the FPC from Arm(D) and (E).
5. Disengage the claw (B), and slide the LCD panel (4) in the (C) direction to remove the LCD holder (2).

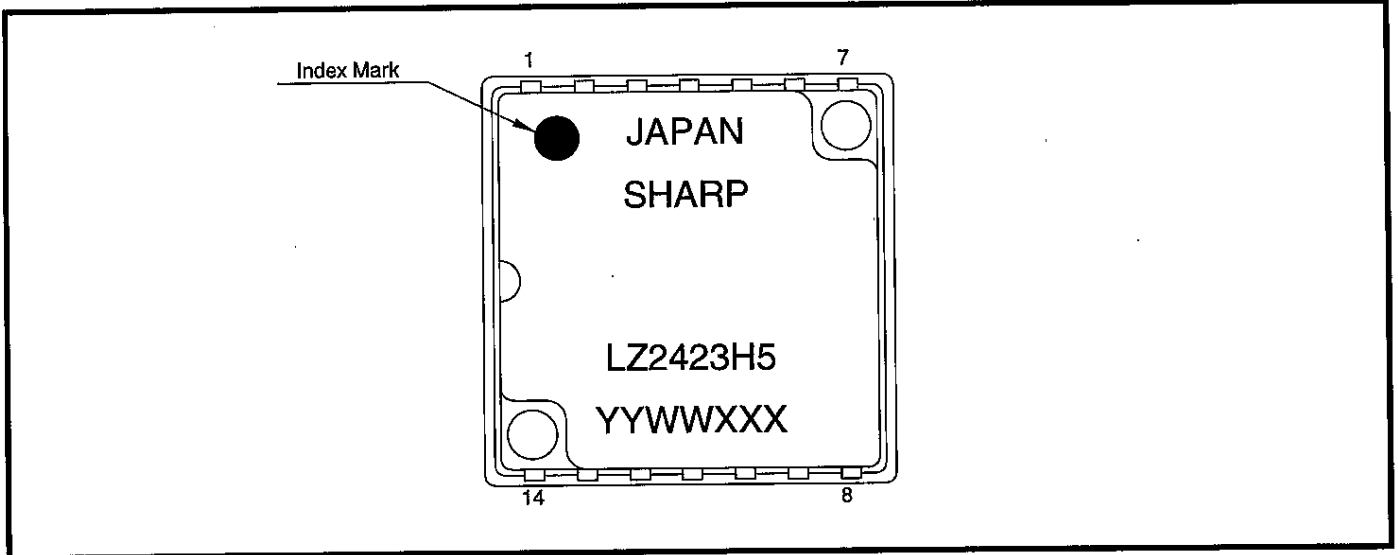
Note:

When handling the prism sheet, diffusion sheet, light guide plate, reflection sheet and reflection polarizing sheet do not touch any parts other than lugs and sides.
Put the light guide plate and reflection sheet between reflectors of lamp. Therefore, install them together with the lamp ass'y.

3-3. REPLACEMENT OF CCD SENSOR

3-3-1. BEFORE REPLACEMENT

- 1) The CCD image sensor is more sensitive to electrostatic breakage than C-MOS LSI. Therefore sufficient means to prevent electrostatic damage must be taken when it is replaced.
 - Ground the soldering iron.
 - Ground also the human body, using the wrist strap(through an 1 Mohm resistor).
 - Until the CCD sensor is mounted on the PWB, fit it to the conductive sponge, and short-circuit the foot lead.
- 2) Take utmost care so that the surface glass of CCD sensor and optical filter are not contaminated and damaged. If any contamination is found, for example fingerprint, wipe it off with silicon paper or clean chamois skin.
- 3) When replacing the CCD sensor, use the static electricity prevention grounded soldering-iron, and perform quickly soldering.



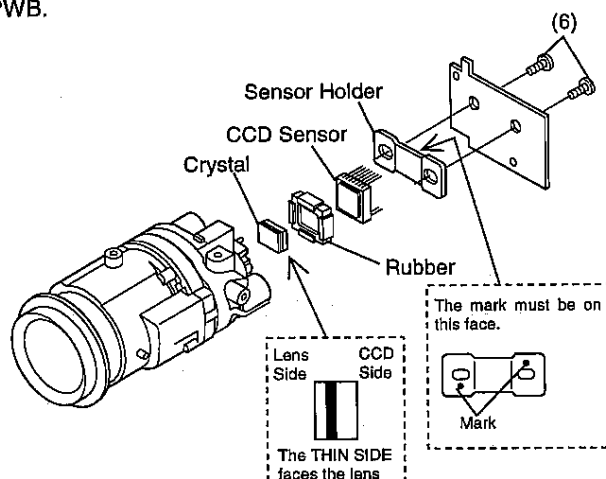
3-3-2. REMOVAL OF CCD

- 1) Unsolder the CCD sensor leads from the sensor PWB.
- 2) Take out the sensor PWB.
- 3) Remove the two screws (6), and remove the sensor holder and CCD sensor.

3-3-3. MOUNTING OF CCD

- 1) Place the lens unit upright (since the CCD sensor mount ID faces upward, care must be taken so as not to damage the front lens of unit), put the crystal filter first and then the dust protection rubber into the CCD holder of lens unit. Set the crystal unit with its thin side toward the lens unit.
 - 2) Place the CCD sensor so that the its No. 1 pin is at the right lower (Positioning hole to be at right), and put the CCD sensor into the CCD holder. For smooth and tight fitting, press the right lower part of back of CCD sensor, and then press the left upper part.
- Note: Pay attention to the direction of CCD sensor.

- 3) Place the sensor holder so that its two round markings be visible, and fix the sensor holder with the two screws ((6)LX-HZ0013TAF).
 - 4) Mount the sensor PWB so that the CCD sensor leads go thorough the PWB holes.
 - 5) Solder the CCD sensor lead to the sensor PWB.
- Note: Take care not to apply excessive heat.



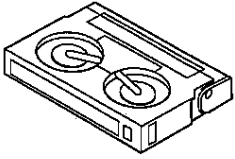
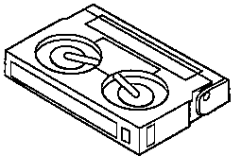
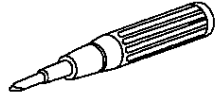
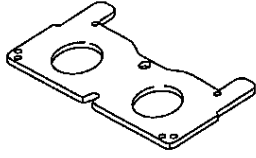
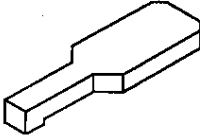
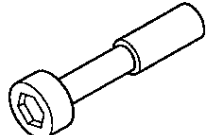
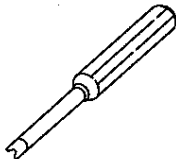
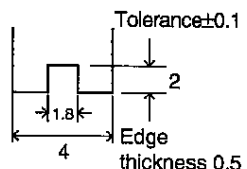
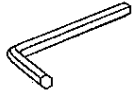
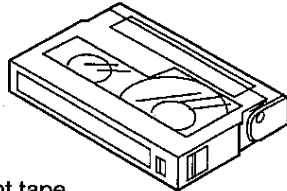
4. MECHANISM ADJUSTMENT

4-1. MECHANISM CHECKING/ADJUSTING JIGS, TOOLS AND PARTS

4-1-1. Mechanism checking/adjusting jigs and tools

<Note: The entries of list>

Configuration
1. Name
2. Part No.
3. Code
* Model, Uses Remarks

 1. Cassette torquemeter for PB 2. JIG8T-012 3. CV * (10 g-cm/25 g-cm)	 1. Cassette torquemeter for VS-REW 2. JIG8T-032 3. CV * (50 g-cm/25 g-cm)	 1. Torque gauge 2. JIGTG0045 3. CN * For measurement of loading brake torque	 1. Torque gauge head 2. JIGTH-MX7U 3. BS * For torque gauge listed left	 1. Torque driver (1.5 kg-cm) 2. JIGTD1500RT0H 3. CB
 1. Master plane 2. JIGMP-MX7U 3. CG * For adjustment of Tu guide height, Si roller height and checking of reel disk height	 1. Height adjusting jig 2. 9DAGH-E31S 3. BM * For adjustment of Tu guide height and Si roller height	 1. Tu guide height adjusting driver 2. 9EQDRIVER-V712 3. BL	 1. Guide roller height adjusting driver 2. JIGDRIVERHMX7U 3. BU * Bit shape (See the figure above.)	 Tolerance±0.1 2 1.8 4 Edge thickness 0.5
 1. Hex wrench 3. — * For loosening or tightening of Motor stator (1.3mm)	 1. Tension Band and Plate Adjusting Jig 2. JIGDRIVERMX7U2 3. BN	 1. Alignment tape 2. VR2DBOPS 3. BT	<Others> (1) Slide calipers (2) High-precision screw-drivers (Phillips head, slotted head) (3) Radio pliers (with thin jaws) (4) A pair of tweezers	

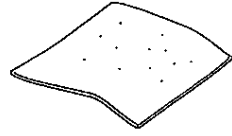
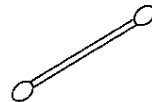
TAPE CONTENTS

VIDEO IMAGE	AUDIO	TIME
MONOSCOPE	L-CH 400Hz	30MIN
	R-CH 1,000Hz	

4-1-2. Parts for periodic inspection and maintenance.

<Note: The entries of list>

Configuration
1. Name
2. Part No.
3. Code
* Model, Uses Remarks

1. Oil COSMOHYDRO HV100 * Cosmo Oil Co., Ltd.	1. Screw locking agent (1401B) * Three Bond		
1. Greases Morycoat YM-103/X5-6020 * Dow Coating	1. Cleaning liquid (Industrial-use ethyl alcohol)	1. Cleaning paper 2. JIGDUSPER 3. AP * Dusper Σ (Sigma) (Ozu Co., Ltd.)	1. Superfine swab * Commercially available item

4-2. ITEMS AND TIMINGS OF INSPECTION AND MAINTENANCE

The mechanism of VCR needs the following periodic inspection and maintenance in order that it maintains its high quality. Also, after the machine is repaired, execute the following maintenance and checks regardless of how long it has been used.

4-2-1. Inspection and maintenance list

	Checking/Maintenance point	Usage time (hrs.)					Possible symptom encountered	Remarks
		500	1,000	1,500	2,000	3,000		
Tape travel system	Tape travelling route (Refer to Section)	☐	☐	☐	☐	☐	• Lateral noise • Unclean head • Screen shaking	Rollers • If abnormal rotation or deflection (significant) is found, replace the roller. Other than rollers • Clean the tape contacting areas. Be sure to use the specified cleaning agent.
	Drum (Refer to Section)	☐	☐	☐	☐	☐		
	Video head	☐	☐ ○	☐	☐ ○	☐ ○	• Improper S/N ratio • No color appears.	
Driving system	Timing belt	—	★	—	★	★	• Tape does not run. • Tape slackens. • Screen shakes.	• Replace if failure is found.
	Pinch roller	☐	☐	☐	☐ ○	☐		
	Capstan D.D. motor	—	○	—	○	○		
	Relay Pulle shaft Pulle gear shaft	—	△	—	△	△	• Abnormal sound	• Apply oil. (Oil : COSMOHYDRO HV100) Note: After oil is applied to the drive gear shaft, slightly wipe it off with swab.
	Drive gear shaft	—	△	—	△	△		
	Loading motor	—	★○	—	★○	★○	• Not ejectable • The specific mode cannot be set.	• Replace if failure (abnormal sound) is detected.
Performance check	Abnormal sound	★	★	★	★	★		• If conformance to the standard is not ensured, replace part.
	PB/VS-REW take-up torque	—	★	—	★	★		
	PB/VS-REW back tension torque	—	★	—	★	★		
	Tu brake	—	★	—	★	★		
	HC (Head Cleaner)	—	○	—	○	○		

Oil: COSMOHYDRO HV100

Greases: MORYCOAT YM-103/X5-6020

Screw locking agent: THREE BOND 1401B

Cleaning liquid: Industrial-use ethyl alcohol

○ : Replace.

☐ : Clean.

△ : Apply oil.

★ : Check.

4-2-2. Notes and cautions

- (1) Any cut washers, once removed for parts replacement or for other reason, must be replaced with new ones.
 - (2) The mechanism of this VCR does not involve any volume adjustment. If the specified range is not satisfied, either cleaning or replacing the parts is required.
 - (3) Oils
 - a) Be sure to use the specified oils (different viscosity may cause troubles).
 - b) For the bearings, be sure to use oil that is free from dust and other foreign substances. (Dust or foreign substance contained in the oil may cause wear or seizure of the bearings.)
 - c) A drop of oil represents the amount of oil which is held on the needle top as shown in the figure 1.
 - (4) The circuit repair must be executed without removing the V frame.
 - (5) For operating the mechanism alone, actuate it with the motor. The terminal-to-terminal voltage must be DC4V or less.
 - (6) When installing the cassette control, press the part A shown in Figure 2.
- *Do not press other parts.
- (7) Take care so that the whole mechanism is not deformed.

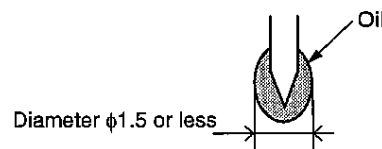


Figure 1

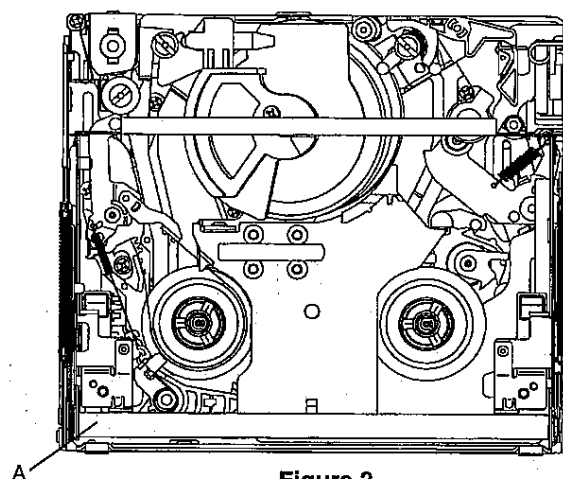


Figure 2

4-3. MECHANISM CHECKS AND ADJUSTMENTS

The description given below relates to the general field services, but does not relate to the adjustment and replacement that require high level equipments, jigs, and technical skills.

In order to maintain the initial characteristics of the machine, it is necessary to execute the maintenance and check and to prevent damage to tapes and other parts. For adjustments which need jigs, be sure to use the jigs.

Notes and cautions

- (1) For mechanism checks and adjustments, be sure to use the AC adapter as the power supply.
- (2) For running the tape, be sure to install the cassette control ass'y in advance. (If the cassette control ass'y is to be removed subsequently after its installation.)

4-3-1. Checking the reel disk height

- (1) Remove the cassette control ass'y.
- (2) Taking due care not to let the master plane touch the tape running areas such as the drum and the guide rollers, position the master plane so that the two guides (A and B in the figure 1) are set in the holes of master plane, then properly set it in the mechanism.
- (3) Using the slide callipers or the like, check that the distance from the upper surface of master plane to the reel support surface of the S/Tu reel disk is within the specified range. (Figure 2)

Note:

When measuring, do not apply excessive force to the reel support surface of reel disk.

- (4) If the measurement is not within the specified range, replace the reel disk ass'y.
- (5) Check the items (2) to (4) above in the following two modes.
 - a) Standby mode
 - b) Playback (recording) mode

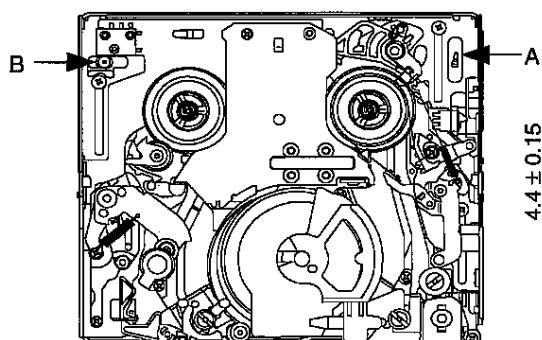


Figure 1

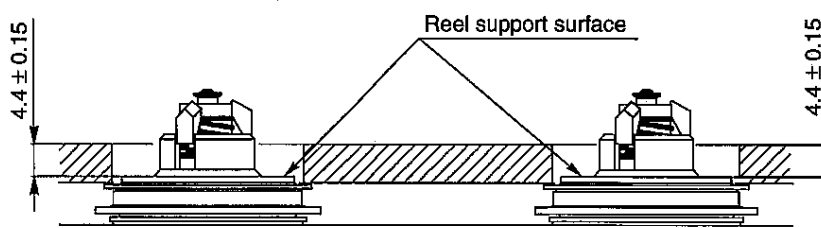


Figure 2

4-3-2. Checking the take-up torque for playback (recording)

- (1) Set the torque cassette (JiG8T-012) in position, and check in the SP-mode recording mode (tape recorded in SP mode) that the torque at the tape taking-up side is within the standard range.

Standard of take-up torque for SP-mode recording (playback)

9 ± 3 g·cm with ripples less than 4 g·cm

(If the torque ripples appear, read the center value of torque between the ripples.)

4-3-3. Checking and adjusting the back tension torque for playback (recording)

(1) Checking

- 1) Set the torque cassette (JiG8T-012) in position, and check in the SP-mode recording mode (tape recorded in SP mode) that the torque at the tape supply side is within the standard range.

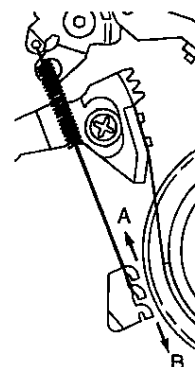
Standard of back tension torque for SP-mode recording (playback):

8 ± 2 g·cm with ripples of less than 2 g·cm

(Torque ripple must be within 8 ± 2 g·cm)

(2) Adjustment

- 1) If the back tension torque is not within the standard range, adjust the tension spring hooking position. If the back tension is too high, hook the spring in the direction A. If the back tension is too low, hook the spring in the direction B.



Note:

1. After back tension torque adjustment be sure to check the tension pole position.

4-3-4. Checking and adjusting the tension pole position**(1) Check**

When winding of P5-120 tape is started, check whether the tension pole is in the specified position against Si roller as shown or not.

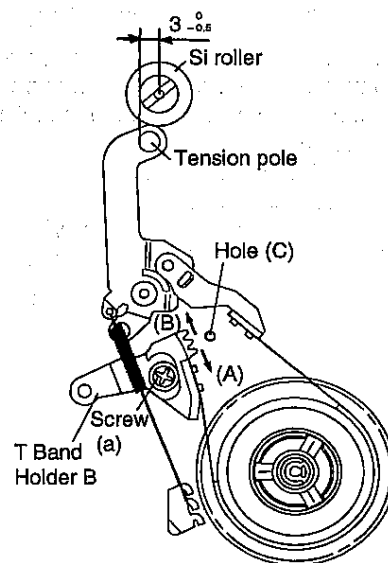
If it is not in the specified position, remove the cassette and adjust the position in the following procedure.

(2) Adjustment

1. Don't set up any tape, and select the PB mode. (Refer to Item 4-5-1-(4).)
2. Slightly loosen the screw (a) (to such a strength as the T band holder B can be moved).
3. If the tension pole is in the inner position than specified, dislocate the T band holder B in the arrow (A) direction and if it is in the outer position, dislocate it in the arrow (B) position. Then, tighten the screw (a). (For reference, dislocate it 0.4 to 0.8 mm outer from the position specified above.) For the position adjustment, it is convenient to use the position adjustment screwdriver (JiGDRIVERMX7U2). (Set it in the hole (C).)
4. Check the position in the "(1) Check" procedure described above.
5. If it is not in the specified position, repeat the adjusting procedure 1 thru 3.

Note:

- Tightening torque of screw (a) 70 mN·m
- To check the position, be sure to run the tape.
- If the cassette compartment assembly is removed, it makes the work easier. (Refer to Item 5-5-3.)

**4-3-5. Checking the take-up torque for rewind playback (VS-REW)**

- (1) Remove the cassette compartment ass'y and set to the sensor OFF mode.
- (2) Set the torque gauge (JiGTG0045) on the S reel disk, and check in the rewind playback (VS-REW) that the torque at the supply side is within the specified range.

Standard of take-up torque in rewind playback (SP mode)

31 ± 5 g·cm with ripples less than 5 g·cm.

(If the torque ripples appear, read the center value of torque between the ripples.)

4-3-6. Checking the back tension torque for rewind playback (VS-REW)

- (1) Set the torque cassette (JiG8T-032) in position, and check in the rewind playback (VS-REW) mode that the torque at the tape take-up side is within the specified range.

Standard of back tension torque in rewind playback (SP mode):

14 ± 5 g·cm with ripples less than 5 g·cm

(If the torque ripples appear, read the center value of torque between the ripples.)

4-5. MECHANISM ASSEMBLING AND PARTS REPLACEMENT (DISASSEMBLING AND ASSEMBLING)

Below is given an explanation of assembling of mechanism and its parts replacement.
The removal of cabinet and Circuit Board is explained in the relevant service manual.

Notes

- 1 After removal of cut washers be sure to replace them with new ones.
- 2 Do not place the mechanism upside down on the table. Otherwise, the mechanism part may be deformed or damaged, resulting in malfunction.
- 3 When assembling, take care so that screw, washer or other foreign substance do not enter. Otherwise mechanism malfunction may occur.
- 4 Be sure to use the specified cleaning liquid, oil, grease and screw lock as listed below. Otherwise mechanism malfunction may occur.

Oil: Cosmo Oil Co., Ltd.
COSMOHYDRO HV100

Greases: Dow Coating
MORYCOAT YM-103/X5-6020

Screw lock: THREE BOND
1401B

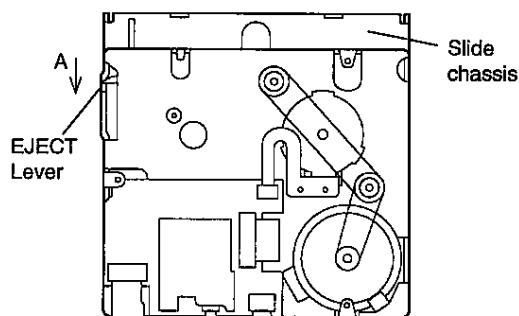
Cleaning liquid: Industrial-use ethyl alcohol

4-5-1. Mechanism modes

To actuate the mechanism, apply DC3 to 4V to the L motor. At this time the L motor connector must have been disconnected in advance.
Below is given an explanation of the mechanism mode necessary for mechanism check, adjustment and replacement.

(1). EJ (Eject) mode (See Figure 1)

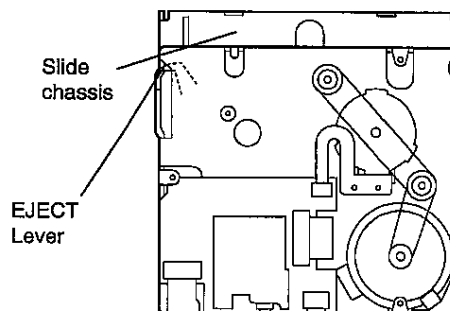
In this mode, it is mechanically positioned to eject the cassette. It is the position where the EJECT lever is moved the farthest in the direction A in the S/B mode. (In this mode, the cassette compartment assembly can not be locked.)



EJ mode
Figure 1

(2). S/B (Standby) mode (See Figure 2)

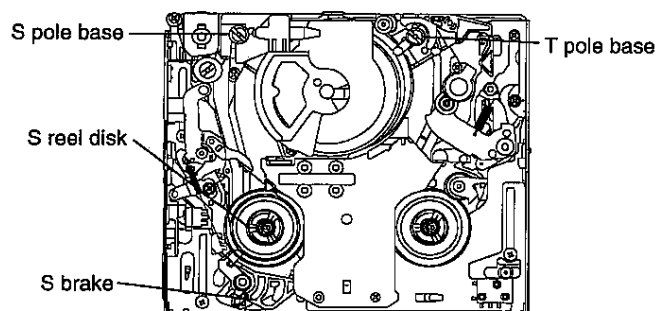
When the cassette is loaded, the mechanism is set to the S/B mode. In this mode the slide chassis is most far from the drum. In this mode the Eject lever is in position shown in Figure 2 (in position where the cassette control ass'y can be locked).



S/B mode
Figure 2

(3). STOP mode (See Figure 3)

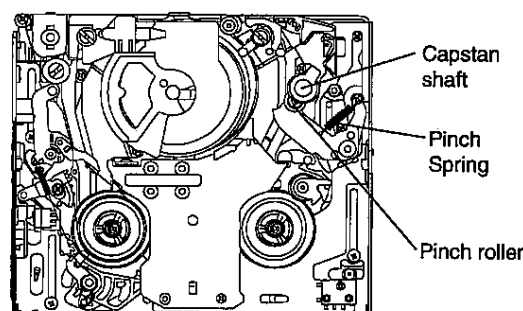
In the STOP mode the S.T pole base is depressed in the STOP position (or Rec Lock position in CAMERA mode), and the S brake is in contact with the S reel disk.



STOP mode
Figure 3

(4). PB mode (See Figure 4)

In this mode, it is positioned for the replay, record and so on. It is the mechanical position where the pinch roller is pressed against the capstan shaft to make the pinch-pressing spring the most longest.



PB mode
Figure 4

4-5-2. Cassette control ass'y

<Disassembling>

- (1) Set the unit to the EJECT mode, and let the housing stand upright. Or set the unit to the STANDBY mode, press the lock lever in the arrow direction, and let the housing stand upright. (See Fig. 5: in the direction (a) or (b)) (When pushing in the direction (a), slightly lift the housing by hand to release the lock lever.)
- (2) Remove the four screws (2) and take out the down guide (3).
- (3) Slide the two link support shafts (c) and the two roller shafts (d) to the round openings (g) on their respective slide chassis slits (two at (e) and two at (f)).
- (4) Deflect the roller shafts (d) a little inward to get them out of the round openings (g) on the slide chassis. (Be careful not to deform the inner links.)

<Reassembling>

- (1) Set the unit to the STANDBY mode.
- (2) Deflect the roller shafts (d) a little inward, and fit them into the round openings (g) on the slide chassis. (Be careful not to deform the inner links.)
- (3) Align the flanges of roller shafts (d) with the slide chassis slits (f). While sliding the flanges, fit the support shafts (c) in the slide chassis slits (e), and slide them until they reach the slits.
- (4) Attach the down guide. (While pressing the guide in the direction (i), tighten the screws until the gap (1) between the down guide (3) and the support shafts (c) becomes zero.)

Tightening torque: 70 ± 7 mN·m (0.7 ± 0.07 kg·cm)

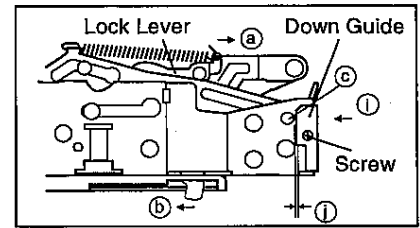


Figure 5. Lock lever section

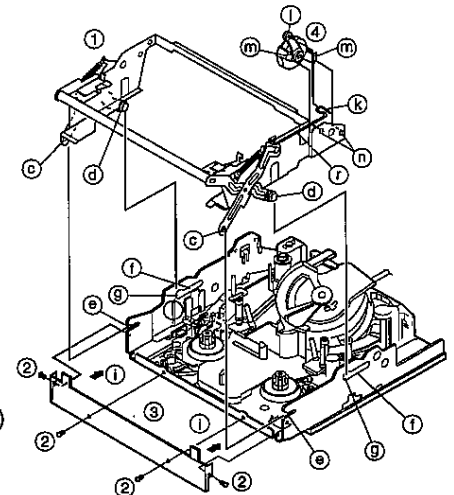


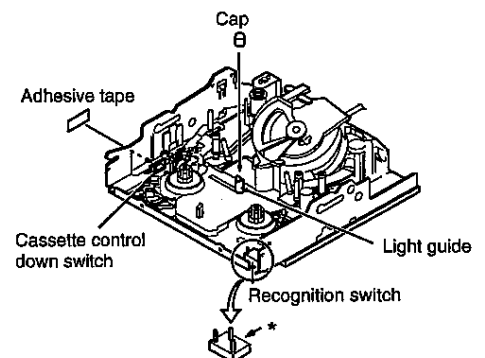
Figure 6

Screw tightening torque (4 locations)
 0.069 ± 0.007 N·m
(0.7 ± 0.07 kg·cm)

4-5-3. Actuating the mechanism with the cassette control ass'y removed

- (1) Turn on the power supply with the cabinet and camera unit removed, referring to the Service Manual (so as to actuate the mechanism).
- (2) Put the cap on the light guide.
- (3) Press the cassette control down switch through the adhesive tape in the arrow direction so as to turn it on. At this time take care to avoid contact with the cassette. Keep the switch pressed (if the switch is turned off, unloading occurs).

Note: To set the Rec mode, press the pin (marked with the asterisk *) of recognition switch (this operation is not necessary in other modes).



4-5-4. Drum and Drum base

<Removal>

For the drum mounted in this model, there are 2 types. One is the same configuration as the former type, which the rotary transformer rotor ass'y and balancer can be removed. When replacing the upper drum, use the upper drum for service (CDRMU0032GE02) as before. The disassembly/assembly procedure is the same as before.

The other is a type directly bonding the rotary transformer rotor. For this type of drum, the rotary transformer rotor and balancer cannot be removed. Therefore, the disassembly procedure is partially different. When replacing the upper drum, use the dedicated service unit (CDRMU0033GE02) including the following parts. The assembly procedure becomes equal to that of the former drum.

* To replace the upper drum, be sure to put on gloves. Due care is required so that the drum is not damaged.

- Upper drum ass'y (former type)
- Balancer
- Balancer mounting screw
- Rotary transformer rotor ass'y (former type)

- (1) Drum base (Both common type)
Remove the 3 mounting screws as shown in Figure 1, and remove the drum base.

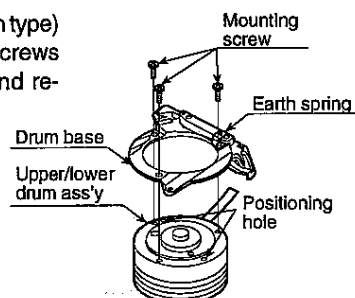


Figure 1

- (2) Drum motor stator (Both common type)
Remove the stator mounting screw with the hexagonal wrench as shown in Figure 2, remove the motor stator.

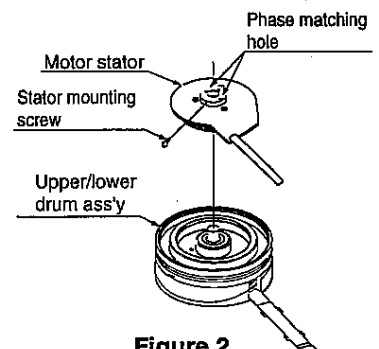


Figure 2

- (3) Upper drum ass'y
(Both common type)
Remove the upper drum ass'y from the lower drum ass'y as shown in Figure 3. At this time take care so as not to lose the gap shim.

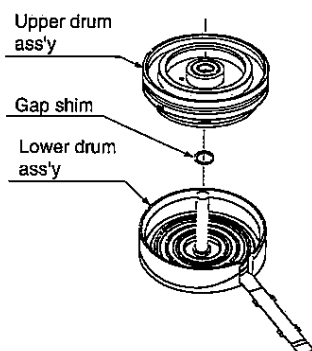


Figure 3

- (5)-a Balancer
(former type)
Remove the balancer mounting screw as shown in Figure 5, and remove the balancer.

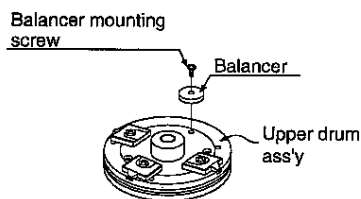


Figure 5

- (5)-b. Balancer
(bonded type)
For the bonded type of drum, the balancer cannot be removed.

- (4)-a Motor rotor ass'y and rotary transformer rotor ass'y(former type)
Remove the 2 rotor mounting screws as shown in Figure 4-a, and remove the motor rotor and the rotary transformer ass'y.

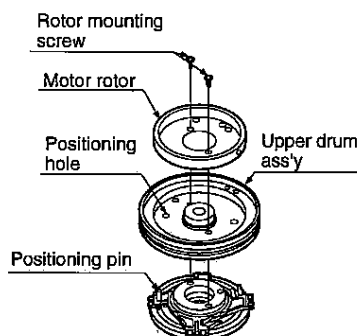


Figure 4-a

- (4)-b Motor rotor ass'y
(bonded type)
Remove two screws fixing the rotor as shown in Figure 4-b, then remove only the motor rotor.

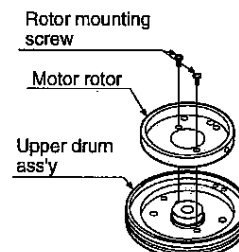


Figure 4-b

- (6) Lower drum ass'y
(Both common type)
Remove the FPC mounting screw from the lower drum ass'y as shown in Figure 6.

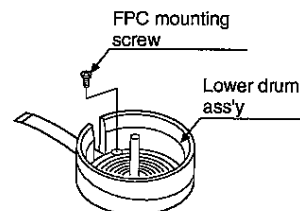


Figure 6

<Installation>

Install the upper drum in the reverse order of removal.

- (1) Balancer

Mount the balancer to the upper drum ass'y with the balancer mounting screw. The screw tightening torque must be 0.1N·m (tighting torque 1kg·cm). (Figure 5)

- (2) Motor rotor, rotary transformer rotor ass'y

Clean the contact surfaces of rotor ass'y holder and upper drum ass'y, and ascertain that there are no contamination and flaws. Next, adjust the phase so that the positioning pin of rotor ass'y is inserted into the positioning hole of upper drum, and tight fit the rotor ass'y to the lower surface of upper drum ass'y (Figure 7).

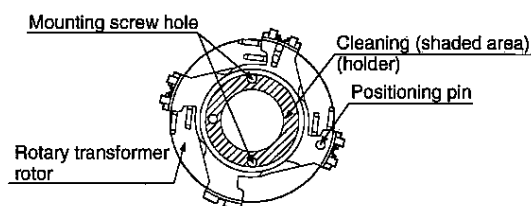


Figure 7

In this state put the motor rotor on the upper surface of upper drum ass'y, and tighten the mounting screw. At this time make sure that the head screw in the three places is visible through the motor rotor hole (Figure 8). The screw tightening torque must be 0.1N·m (1 kg·cm).

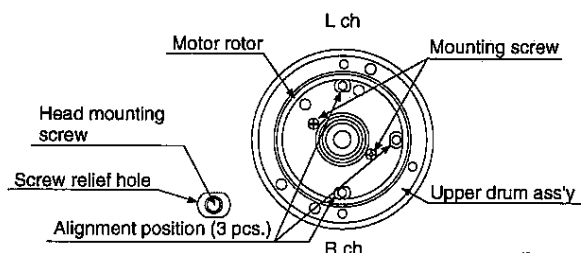
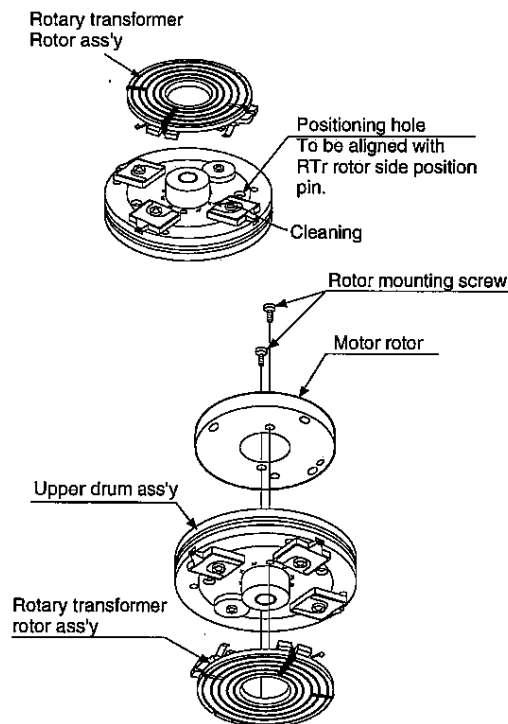


Figure 8



- (3) Lower drum ass'y
Tighten the FPC mounting screw to the lower drum ass'y. The screw tightening torque must be 0.08N·m (tighting torque 0.8kg·cm). (Figure 6)
- (4) Upper drum ass'y
After fitting the gap shim which was removed when the upper drum ass'y was dismantled to the shaft of lower drum ass'y, fit the upper drum ass'y. (Figure 3)
At this time slightly turn the upper drum ass'y by hand to ascertain that RTr does not scrape. If scrape is found, replace the gap shim with the gap shim packaged together with the replacement upper drum ass'y.
- (5) Drum motor stator
Fit the motor stator to the shaft. Then, apply the preliminary pressure 0.07N·m (0.7kg) to the motor stator, tighten the stator mounting screw. The tightening torque must be 0.15N·m (1.5kg·cm).
Install the stator so that the chassis line is nearly parallel with the motor stator straight section when it is installed on the chassis. (Figure 9)
- (6) Drum base
Align the positioning pin, and tighten the screws (3 pcs.).
- (7) Drum ass'y
Install the drum ass'y on the main chassis, and tighten the screws (3 pcs.).
- (8) Tape guide
Align the positioning pin, and tighten the screw (one pc.).

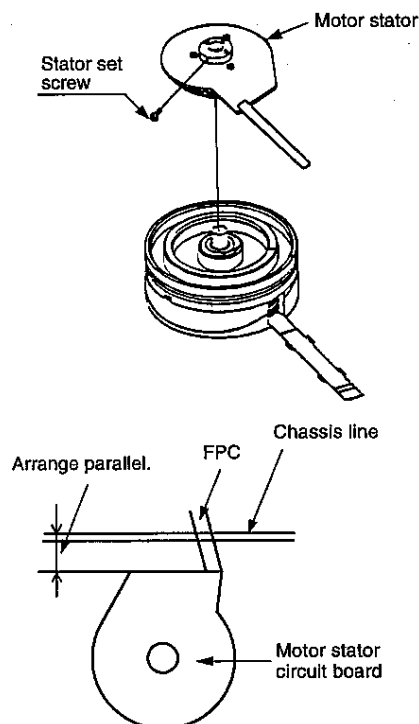


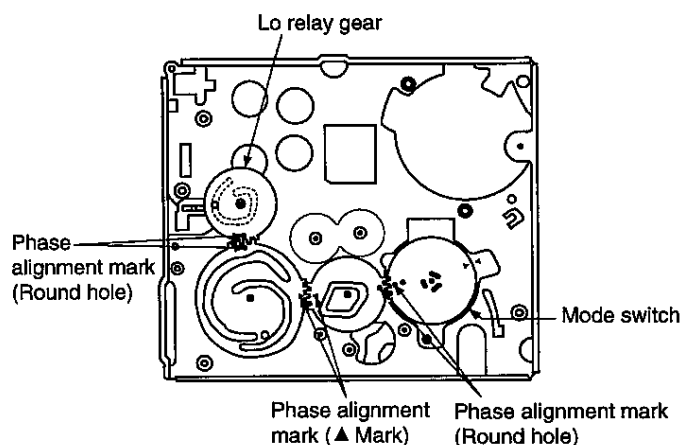
Figure 9

4-5-5. Phase matching

The phase of the following parts must be matched as shown in the figure right.

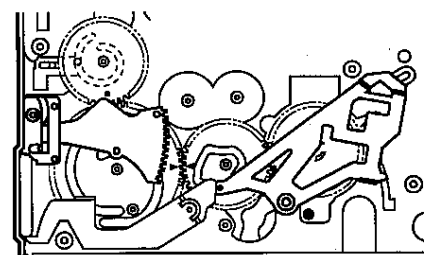
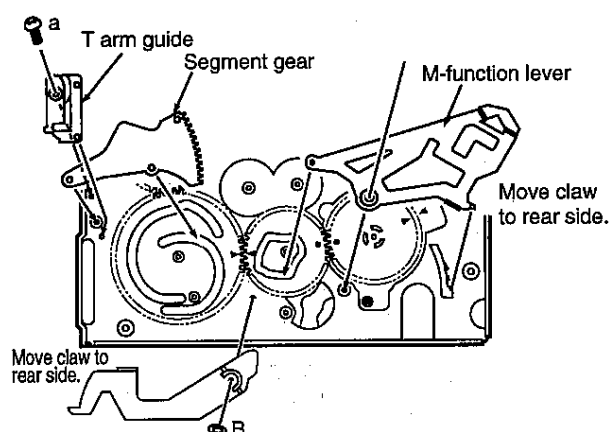
(Ascertain that the ▲ marks and round holes align.)

- | | |
|-------------------|-----------------|
| (1) Lo relay gear | (2) Main cam |
| (3) Sub-cam | (4) Mode switch |



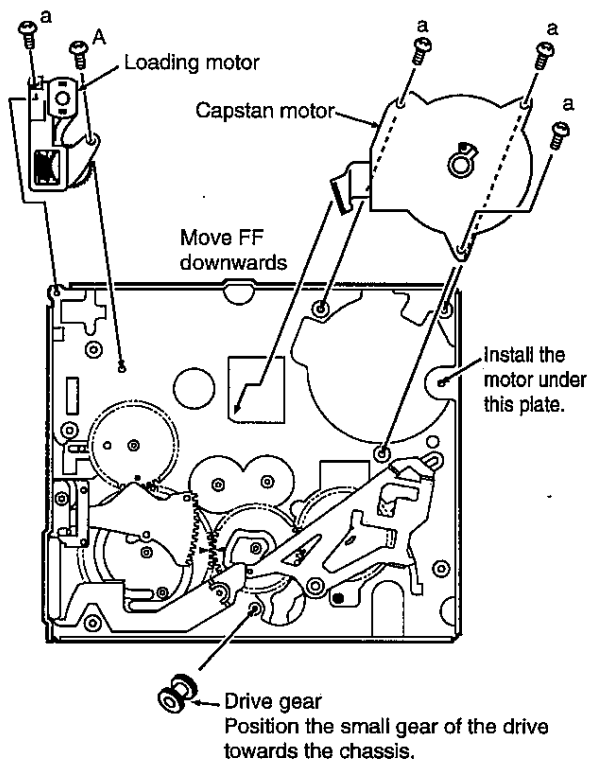
4-6. MECHANISM ASSEMBLING METHOD

- (1) Adjust the phase of each part.
- (2) Install screws and washers.
- (3) Install the segment gear, T arm guide and the M-function lever. Install the eject lever.



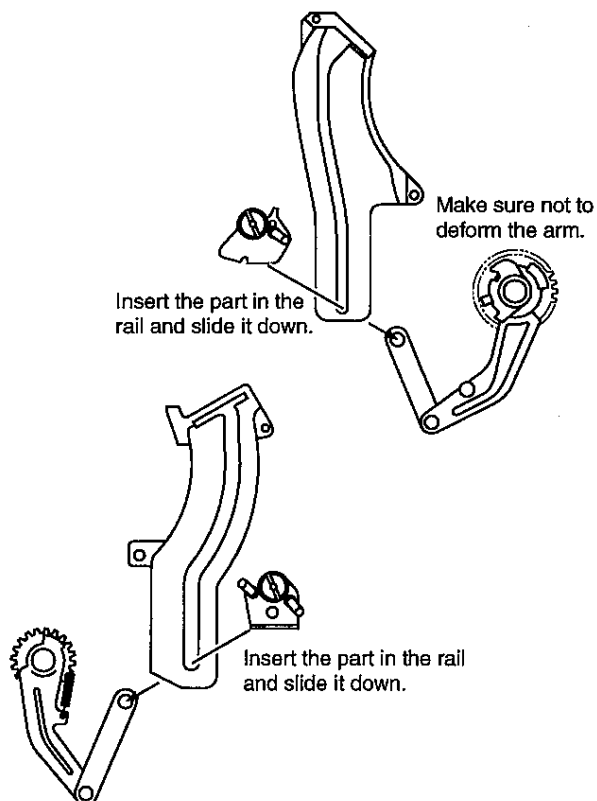
	Item	Tightening torque	Quantity
a	S Tight M1.4 x 3	70mN·m (0.7kgf·cm)	1
B	ø0.8-ø3-10.2	—	1

- (4) Install the loading block assembly and the capstan motor.
(5) Install the drive gear. At this time, pay attention to the direction of gear. (The small gear must be located in the chassis side.)

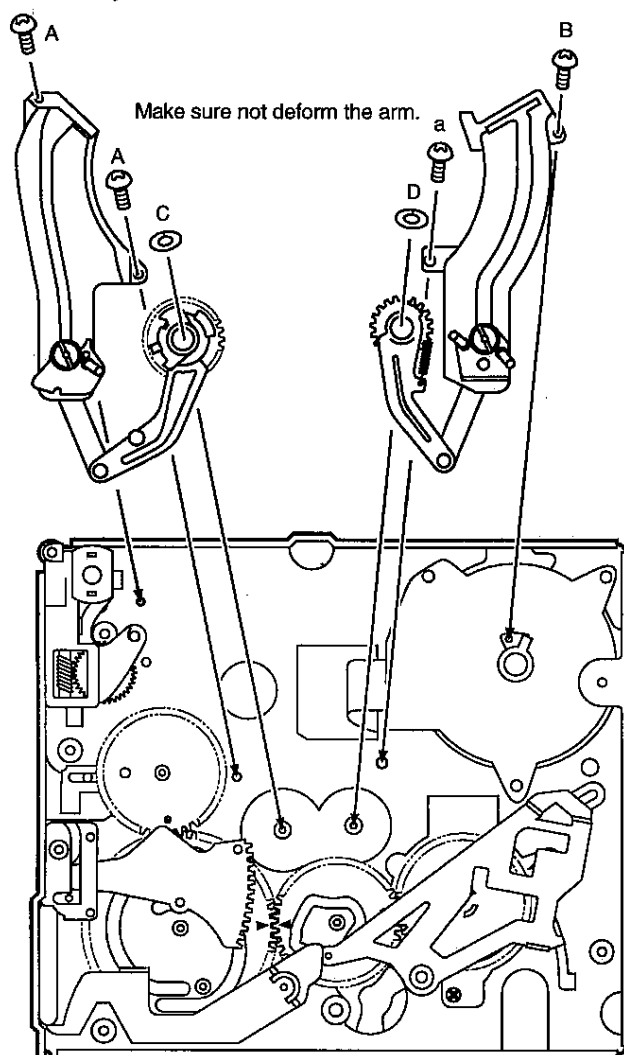


	Item	Tightening torque	Quantity
A	S Tight M1.4 x 2.5	70mN·m	1
a	S Tight M1.4 x 3	70mN·m	4

- (6) Install the guide rail assembly.

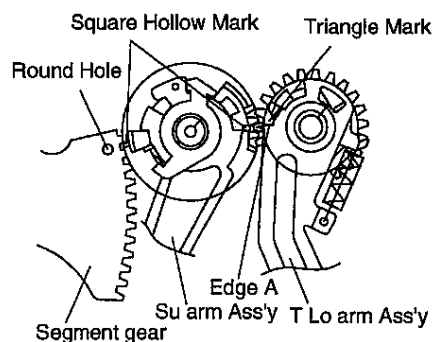


- (7) Install the guide rail assembly taking care to position it correctly.

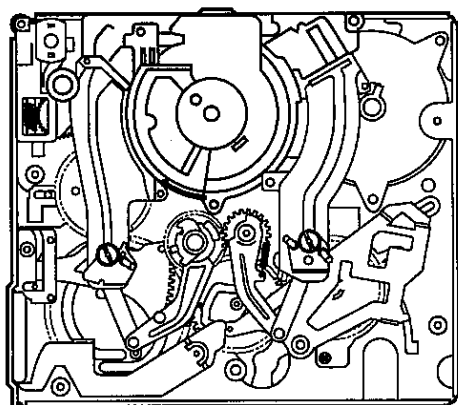
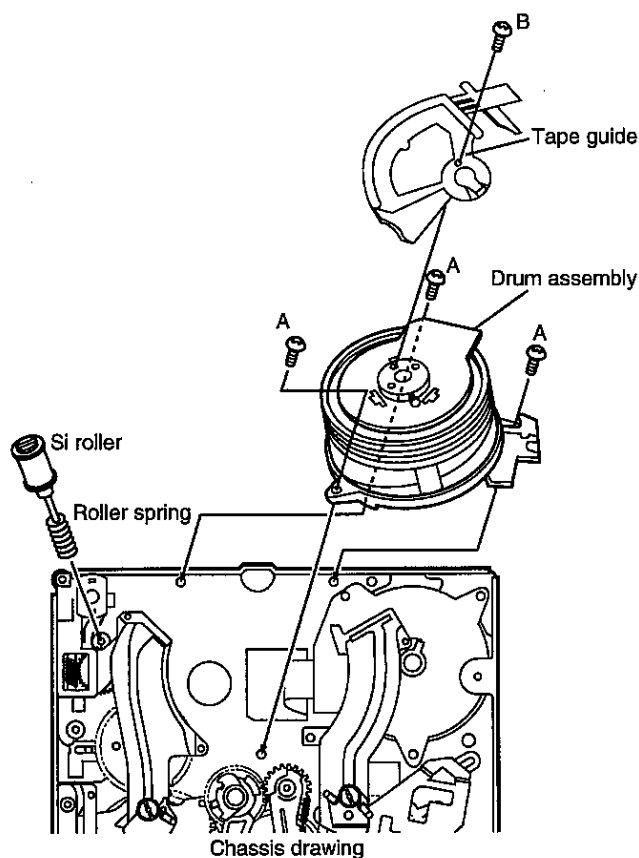


	Item	Tightening torque	Quantity
A	S Tight M1.4 x 2.5	70mN·m	2
B	S Tight M1.4 x 4	40mN·m	1
C	ø0.8-ø3-t0.2	—	1
D	ø2.1-ø5-t0.25	—	1
a	S Tight M1.4 x 3	70mN·m	1

Align the marks on the parts.

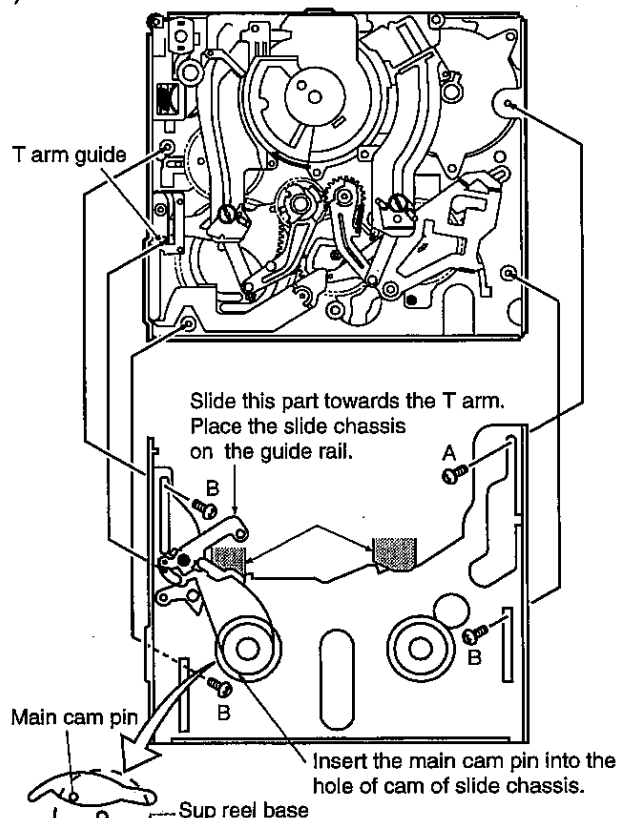


- (8) Install the drum assembly in the chassis.
(9) Install the tape guide in the drum assembly.
(10) Install the Si roller.



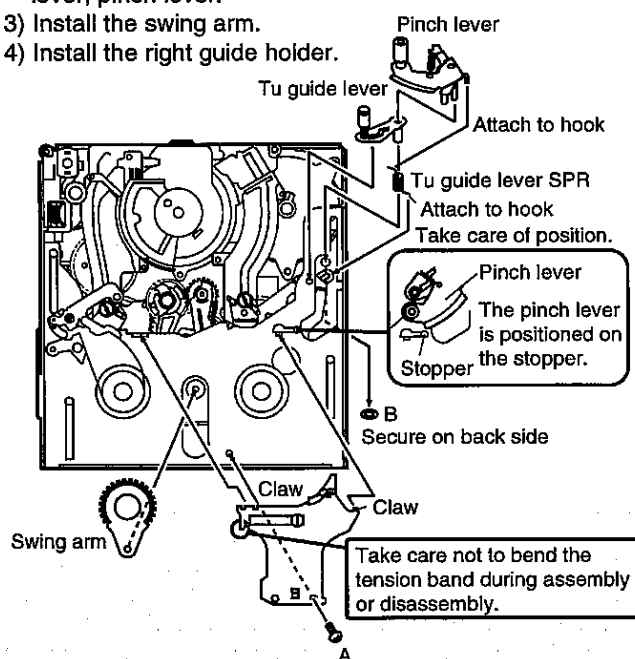
	Item	Tightening torque	Quantity
A	S tight M1.7 x L5.3	100mN·m	3
B	S tight M1.7 x L2.5	60mN·m	1

- (11) Install the slide chassis.



	Item	Tightening torque	Quantity
A	M1.4 x 1.5 ø4	40mN·m	1
B	M1.4 x 1.5 ø3.5	40mN·m	3

- (12) Install in the following order: T guide lever spring, T guide lever, pinch lever.
(13) Install the swing arm.
(14) Install the right guide holder.



	Item	Tightening torque	Quantity
A	S tight M1.4 x 2.5	70mN·m	1
B	CW ø0.8-ø3-ø0.2	70mN·m	1

5. ADJUSTMENT OF VCR AND CAMERA

5-1. INITIAL SETTING OF E²PROM IC

5-1-1. E²PROM data alterable ways

- 1) Set the switch of main body to CAM, and use the remote control (RRMCG0033TASA) for adjustment to turn on the adjustment mode.
- 2) VCR adjustment address setting.
V ADJ
0000 "0000" is blinking
After an objective address was established, play key is pushed and set.
In addition, numerical change uses a "REW" or "FF" key.
- 3) VCR adjustment data setting.
V ADJ
0000 ## Value of "##" differs by an address.
After an objective data was established, "PLAY" key is pushed and set.
- 4) When data of other address are changed successively, push "STOP" key, and please repeat operation to 5) from 3).
- 5) When SW of the substance is turned into off, data are written to E²PROM from systematic microcomputer.

5-1-2. IC703 (E²PROM)

When the IC703 has been replaced, make the following settings and adjustments.

1. Remove the backup battery (CR2025).
2. Turn power switch to CAMERA.
3. Setting up the V ADJ mode as follows.
* After press the CONTINUE key, press the VCR ADJ key on service remote control (RRMCG0033TASA).
4. After setting the above data, clear the V ADJ mode and turn off the power by pull out the battery pack or DC cable.
Neglect about 30 seconds after turned off power, because data of address becomes effective after microcomputer is reset.
Now the setting of data is completion.

Adjustments to follow

Make the system controller servo, VCR, and LCD adjustments according to their respective instructions.

Data Address	A10S	A10H	A10E	AH30S	AH30H	AH30E
01	00	00	00	00	00	00
09	FF	FF	FF	FF	FF	FF
02	0A	0D	0C	0A	0D	0C
0A	F5	F2	F3	F5	F2	F3
03	60	60	60	00	00	00
0B	9F	9F	9F	FF	FF	FF
04	00	40	40	00	40	40
0C	FF	BF	BF	FF	BF	BF

5-1-3. Camera adjustment

When the IC2 has been replaced, make the camera adjustment according to its instructions.

All the camera adjustment data are written in the E²PROM provided on the lens unit. Therefore, when the lens is replaced, the camera must be adjusted again according to the camera adjusting procedure.

5-2. ADJUSTING THE Y/C, AUDIO AND LCD CIRCUITS ON MODELS WITHOUT A/V IN MODE (A/V IN MODE SET-UP PRODUCE)

- 1) Set the switch of main body to CAM, and use the remote control (RRMCG0033TASA) for adjustment to turn on the adjustment mode.
- 2) Set up the adjustment address (example : EE mode adjustment address 14). Once this address has been set up, the A/V IN mode (test mode) is automatically brought and the images appear on the LCD display.
- 3) Now make the adjustments referring to the instructions in the manual.

5-3. ADJUSTMENT OF VCR SECTION

5-3-1. Before starting the electric circuit adjustment

- Electric circuit adjustment becomes necessary, in most cases, when any of the wear mechanical parts or the video head has been replaced. Before starting the electric circuit adjustment, be sure to check that the mechanical parts work well (i.e., the mechanical parts have all been perfectly adjusted). In case a trouble or troubles are found in the electric circuitry, be sure to pinpoint the cause(s) by using the measuring instruments described below. After locating the trouble spot(s), then proceed to repair, replacement or adjustment. Do not change the positions of the controls when adequate measuring instruments are not available.
- In order to implement a higher-density, smaller machine, most of the electric circuit parts used on the Circuit Boards are of small-sized, surface-mounted type. For replacing part(s) as after-sales service, work with a soldering iron as speedily as possible. The heat resistance of the surface-mounted components is poor, when compared with the larger-sized discrete parts used for television sets and stationary decks, owing to their small sizes. Therefore, exercise due care to avoid long-time exposure of the pins of these parts to the heat of the soldering iron which may possibly damage them. Such care should be exercised especially for chip-layer capacitor replacement. It is advisable to use a temperature-controlled ceramic soldering iron (temperature at the tip: 250°C, contacting time: less than 5 seconds).

< Adjusting the video/LCD section >

• Measuring instruments:

*Color monitor TV set *Digital voltmeter *DC power supply *Audio generator (CR oscillator) *Alignment tape (JiGWR5-5CSP) (JiGWR5-8CSE)	*Oscilloscope *Frequency counter *Signal generator *AV output cable (accessory) *Video recording tape (For Y/C, audio and servo adjustments)	*DC cable (AC adapter accessory) *Video extension cables *Vector scope *AC adapter
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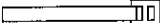
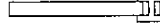
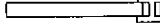
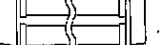
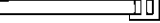
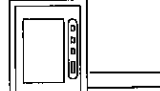
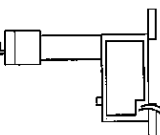
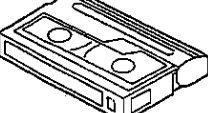
5-3-2. Servicing the VCR section Adjustment

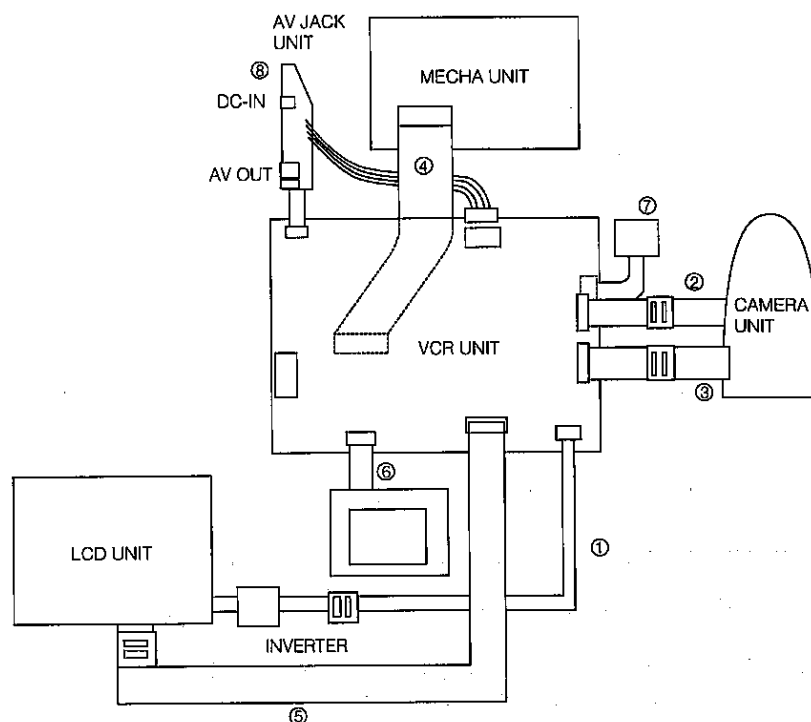
5-3-2-1. Typical connections

Configuration

<Note: The entries of list> 1. Name 2. Part No. 3. Code
4. Note * Model, Uses Remarks

<Extension Cable etc.>

 1. Extension Cable Inverter-VCR (7pin) 2. QCNW-1265TAZZ 3. AX	 1. Extension Cable Camera-VCR (20pin) 2. QCNW-1774TAZZ 3. BH	 1. Extension Cable Camera-VCR (24pin) 2. QCNW-1382TAZZ 3. BD	 1. Extension Cable MECHA-VCR (70pin) 2. QCNW-1534TAZZ 3. BS	 1. Extension Cable LCD-VCR (24pin) 2. QCNW-1382TAZZ 3. BD
 1. VCR Operation Unit 2. QSW-Z0287TAZZ or RUNTK0353TAZZ 3. AW/AS	 1. Battery Terminal Unit 2. QTANZ0146TAZZ 3. AK	 1. AV Jack Unit 2. RUNTK0355TAZZ 3. AT	 1. Connector fitting and withdrawing tweezers	 1. Connector fitting and withdrawing tweezers 2. 9EQPINSET06GE 3. BR
 1. Service remote control 2. RRMCG0033TASA 3. BT	 • Alignment Tape JiGWR5-5CSP (PAL) Normal 8 TAPE (MONO) JiGWR5-8CSE (PAL) Hi8 TAPE (MONO) * Y/C Audio Alignment			



• Types of test modes

TEST No.	Title	Contents	Sensor on/off
1	Sensors off	All sensors but the cassette controller switch, dew sensor and battery sensor stay off.	
3	Automatic battery sensor adjustment	Battery sensor's input voltage put in memory.	
4	Battery adjustment error display	Battery sensor's adjustment errors are displayed at the right of the "past errors" area.	All sensors on All but sensors on
5	PASS mode	Track shift mode (1/4 shift)	All sensors on
6	Camera adjustment mode	Camera adjustment mode	[VCR interrupted]
7	VCR adjustment mode	VCR adjustment mode	
8	Automatic switching point adjustment (STOP ADJ)	Play standard tape and call this mode. Switching point is automatically adjusted.	

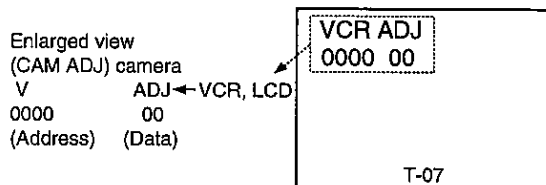
① When the battery adjustment mode is selected from the camera adjustment mode with a cassette with the erase protection tab, the VCR is automatically put in the REC mode.

• Below discussed are these seven test modes.

- ① [TEST No. 1] Sensors off mode
All the sensors, except for the cassette controller switch, dew sensor and battery sensor, stay off. This enables to bring the VCR in the loading mode without tape. The VCR/camera performance can now be checked with no tape inside.
- ② [TEST No. 3] Automatic battery alarm adjustment
Used to automatically adjust the voltage level which makes the "battery" appear on the LCD display.
- ③ [TEST No. 4] Battery alarm check/error display
• The difference between the preset battery alarm voltage and the current supply voltage is displayed as follows.
• A past error is displayed at the right of the current battery alarm error.
- ④ [TEST No. 5] PASS mode
Used to adjust the tape travelling condition. The tracking is shifted by 1/4 from the center to make the tape running-related RF envelope fluctuations easier to observe.
- ⑤ [TEST No. 6] Camera adjustment mode
Used to adjust the camera section. (For details, see Servicing the Camera Section.)
- ⑥ [TEST No. 7] VCR adjustment mode
Used to adjust the VCR section. (For details, see Servicing the VCR Section.)
- ⑦ [TEST No. 8] Automatic switching point adjustment
Used to automatically adjust the playback switching point. (For details, see Automatic Adjustment of the Playback Switching Point.)

5-3-2-2. Setting up the VCR section adjustment mode (camera section adjustment)

- Select adjustment items by using addresses. Rewrite the adjustment data to change the settings.
Below shown the adjustment procedures and on-screen display.



	Procedural steps	Display (: flashing)
①	Turn up or down the flashing hexadecimal number with the FF or REW key to select the address of a desired adjustment item. (Initial address: 00H) Note: The addresses change as follows. 01FE — 01FF — 0000 — 0001 — 0002	V ADJ
②	Press the PB key to read the data of the selected address.	V ADJ 002C A3
③	Turn up or down the data setting with the FF or REW key. The data display starts flashing.	V ADJ 002C
④	Press the PB key again to write the data setting into the selected address.	V ADJ 002C 72
⑤	Press the STOP key in the above step ② or ④, and the screen returns back to the step ①.	V ADJ

When the FF or REW key is held down for 0.3 second or longer, the address selection is repeated in cycles of 100 msec. The data setting changes by ± 4 by holding the key down for 2 seconds or longer.

5-3-2-3. Battery shut-off voltage adjusting method

- 1) Supply power to the main unit, using the variable-voltage DC power supply (range of 2.5V to 5.0V).
- 2) Set the CAM/OFF/VCR SW to CAM to switch to the camera mode.
- 3) Load a recordable tape and set the main unit to CAM REC. PAUSE.
- 4) Set the main unit to TEST mode No. 3, and start recording.
- 5) Measure voltage between TL2911(+) and TL2914(GND), and adjust the supply voltage to 3.1V.
- 6) The adjustment is complete if "BATTERY" is displayed on the monitor screen for a second when the PLAY key of operation unit is pressed.
- 7) The adjustment is regarded as proper if the auto shut-off is actuated after the warning is displayed when the TEST mode is cancelled.

* In case of automatic adjustment of shut-off voltage, adjustment is impossible if voltage is above $3.1V \pm 0.2V$.
If the adjustment is made at 2.9V or below, the low-voltage operation may become unstable.

•Type of test modes**<Procedures>**

To adjust the camera section of this machine, the remote control for servicing (RRMCG0033TASA) is used.

Press the "CONTINUE" key → "TEST SEL", this will show [T-01] on the LCD OSD, (01:flashing), and select the below TEST No. with "FF" or "REW" key and set with "PLAY" key.

Same procedures of adjustment from now on.

Use the SW2 thru SW9 switches on the adjustment tool to select the following test modes.

TEST No.	Title	Contents	Sensor on/off
1	Sensors off	All sensors but the cassette controller switch, dew sensor and battery sensor stay off.	
2	Mechanism adjustment mode	① Automatic SP/LP detection prohibited ② Different-mode detection prohibited ③ ATF sampling limited to center	All sensors on
3	Automatic battery sensor adjustment	Battery sensor's input voltage put in memory.	
4	Error display	Past errors appear on the counter display of the viewfinder.	All sensors on
	Battery adjustment error display	Battery sensor's adjustment errors are displayed at the right of the "past errors" area.	All but sensors on
5	PASS mode	Track shift mode (1/4 shift)	All sensors on
6	Camera adjustment mode	Camera adjustment mode	[VCR interrupted]
7	VCR adjustment mode	VCR adjustment mode	
8	Automatic switching point adjustment (STOP ADJ)	Play standard tape and call this mode. Switching point is automatically adjusted.	

- ① When the battery adjustment mode is selected from the camera adjustment mode with a cassette with the erase protection tab, the VCR is automatically put in the REC mode.

5-3-4. Adjustment of system controller and servo circuit**5-3-4-1. Adjustment of playback switching point****b) CHARGING CIRCUIT ADJUSTMENT PROCEDURE**

- 1) Play back the alignment tape (JiGWR5-5CSP)
- 2) Press the "CONTINUOUS PUSH" and "TEST MODE SELECTION" of adjustment remote controller to set the test mode.
(At this time the numeral of "TEST01" blinks.)
- 3) Using the "FF" and "REW" keys, select "TEST08", and press the playback key to set the SW-P adjustment mode.
- 4) After a while the adjustment is completed, and operation stops automatically.
In case of adjustment failure the tape is ejected automatically.

Measuring instrument	Oscilloscope
Mode	Playback
Adjustment address	30h
Tape	Alignment tape (JiGWR5-5CSP)

Only in the case when the satisfactory result was not obtained by the adjusting method described above, perform the following adjustment.

- 1) Connect each signal to the oscilloscope.
1ch: SEP Y OUT TL1453
2ch: H-SW-P TL7417
GND: GND TL1454
- 2) Play back the alignment tape (JiGWR5-5CSP)
- 3) Press the "CONTINUOUS PUSH" and "VCR ADJUSTMENT" of adjustment remote controller to set the VCR adjustment mode.
- 4) Select the address 30h, set the sync slope of oscilloscope to (-), adjust the data with "REW" and "FF" so that the interval between the trigger point and the V sync signal is set to 6H, and fix the data with the "PLAY" button. (See Figure 5.1.1.)
- 5) Then, set the sync slope to (+), and ascertain that the interval between the trigger point and the V sync signal has been set to 6H. (See Figure 5.1.2.)
- 6) Keep the STOP key pressed for about 3 seconds to exit from the adjustment mode.

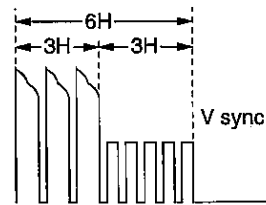


Figure 5.1.1

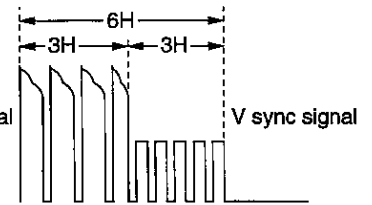


Figure 5.1.2

5-3-5. Y/C circuit adjustment method**1. Y recording current adjustment**

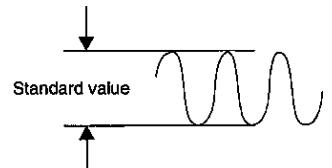
· Hi-8model (VL-AH30S Series)

	Mode	Address	Measuring point	Adjustment standard	Measuring instrument
REC Y current adjustment (Hi-8)	VCR	3F	TL9413(Sig)	ME 160±5mVP-P	Oscilloscope
		40		MP 115±5mVP-P	
REC Y current adjustment (Nor 8)	STOP	41	TL9414(Gnd)	ME 165±5mVP-P	
		42		MP 135±5mVP-P	

· Nor8model (VL-A10S Series)

	Mode	Address	Measuring point	Adjustment standard	Measuring instrument
REC Y current adjustment (Nor 8)	VCR STOP	42	TL9413(Sig) TL9414(Gnd)	MP 135±5mVP-P	Oscilloscope

- (1) Enter the VCR STOP mode.
- (2) Select the above applicable address with the adjustment remote control.
- (3) Measurement signal is output to TL9413.
- (4) Adjust the amplitude so as to get the adjustment standard value at TL9413(Sig) and TL9414(Gnd).

**2. C recording current adjustment**

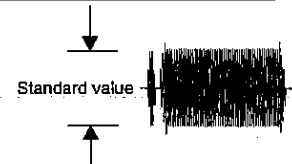
· Hi-8model (VL-AH30S Series)

	Mode	Address	Measuring point	Adjustment standard	Measuring instrument
REC C current adjustment (Hi-8)	VCR	43	TL9413 (Sig)	ME 150±5mVP-P	Oscilloscope
		44		MP 105±5mVP-P	
REC C current adjustment (Nor 8)	STOP	45	TL9414 (Gnd)	ME 185±5mVP-P	
		46		MP 160±5mVP-P	

· Nor8model (VL-A10S Series)

	Mode	Address	Measuring point	Adjustment standard	Measuring instrument
REC Y current adjustment (Nor 8)	VCR STOP	42	TL9413 (Sig) TL9414 (Gnd)	MP 160±5mVP-P	Oscilloscope

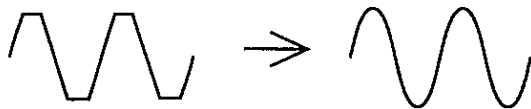
- (1) Enter the VCR STOP mode.
- (2) Select the above applicable address with the adjustment remote control.
- (3) Measurement signal is output to TL9413.
- (4) Adjust the amplitude so as to get the adjustment standard value at TL9413(Sig) and TL9414(Gnd).



5-3-6. Adjustment of audio circuit

1. Adjustment of filter f0

Measuring instrument	Oscilloscope
Mode	PB
Input signal (tape)	JiGWR5-5CSP
Measuring terminal	TL605/AUDIO.OUT
Adjustment address	33
Set value	Clear the waveform



Audio Check

Checking of self-recording/playback

Measuring instrument	Valve Voltmeter (oscilloscope)
Mode	REC → PB
Input signal (tape)	400 Hz, -8 dBs (872 mVp-p)
Measuring terminal	Audio IN/OUT
Adjustment address	—
Set value	-8 dBs ± 4 dBs (580 to 1370 mVp-p)

- 1) Set the alignment tape (JiGWR5-5CSP).
- 2) Using the adjustment remote controller (RRMCG0033TASA), set the VCR adjustment mode, and set the address "33" with the operation switch (FF/REWIND key).
- 3) Play back the standard tape.
- 4) Using the operation switch (FF/REWIND key), make an adjustment so that the most clear playback waveform is obtained on TL605.
- 5) Press the operation switch (PLAYBACK key) to write the data.
- 6) Press the operation switch (STOP key) to exit from the address "33".
(The address "33" blinks.)

- 1) Input the audio signal (400Hz, -8dBs) into the Audio line IN/OUT terminal, and record.
- 2) Connect the valve voltmeter (oscilloscope) to the Audio line IN/OUT terminal.
- 3) Play back the record, and ascertain that the output waveform level is -8 dBs ± 4 dBs (580 to 1370 mVp-p on the oscilloscope).
- 4) If there is any deviation from the specified value, perform adjustment again as stated in items 1) above, and check again the self-recording/playback level.

5-3-7. Adjustment of LCD display circuit

Adjustment procedures and connections are the same as with the VCR section. (Refer to item 5-3-3)

1. Inverter input Voltage Setting

VCR ADJ	
Address	Data
50	8F
51	8A
52	6F

2. Dac full-Scale adjustment

Measuring point	TL1801 (G-OUT)
Address	039
Mode	VCR
Adjusting method	1) Set the data of address 082 changed to 80, address 0A2 changed to 00, address 0A5 changed to 80. 2) Connect TL3804 to P-CON 3.1V. 3) Connect the Digital voltmeter to TL801 and adjust the DC volt. 4) Set the data of address 082 changed to 40, address 0A2 28. (Restore)
Adjustment standard	0.78V ± 10mV
Remarks	—

3. R-W/B adjustment

Measuring point	TL3814 (G-OUT) TL3813 (R-OUT)
Address	090
Mode	VCR
Adjusting method	1) Set the data of address 082 at the address 80. 2) TL3814 (G-OUT): Oscilloscope CH1 TL3813 (R-OUT): Oscilloscope CH2 3) Adjust P-P of TL3813 becomes bigger 0.15V than TL3814. 4) Set the data of address 082 at the address 40. (Restore)
Adjustment standard	±0.1Vp-p
Remarks	—



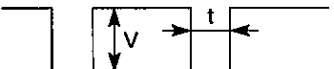
4. B-W/B adjustment

Measuring point	TL3814 (G-OUT) TL3815(B-OUT)
Address	092
Mode	VCR
Adjusting method	1) Set the data of address 082 at the address 80. 2) TL3814 (G-OUT): Oscilloscope CH1 TL3815 (B-OUT): Oscilloscope CH2 3) Adjust P-P of TL3815 become bigger 0.1V than TL3814. 4) Set the data of address 082 at the address 40. (Restore)
Adjustment standard	±0.1Vp-p
Remarks	—

5. VCO adjustment

Measuring point	TL3802
Address	03E
Mode	VCR
Adjusting method	1) Connect TL3803 to GND. 2) Connect the frequency counter to TL3802, and adjust the frequency.
Adjustment standard	15.625kHz $\pm$ 100Hz
Remarks	

6. H-position adjustment

Measuring point	TL3802
Address	03B
Mode	VCR
Adjusting method	1) Connect the oscilloscope to TL3802, and adjust the pulse width. 
Adjustment standard	2.8 μ sec $\pm$ 0.15 μ sec
Remarks	

7. COMMON PULSE adjustment

Measuring point	TL1801
Address	037
Mode	VCR
Adjusting method	1) Set the data of address 0A5 at the address 80. 2) Connect TL1800 to GND. 3) Connect the Digital voltmeter to TL1801, and adjust the DC Volt.
Adjustment standard	6.85V $\pm$ 50mV
Remarks	

8. COM-BIAS adjustment

Measuring point	LCD panel display surface
Address	03C
Mode	VCR
Adjusting method	1) Set data of address 0A5 at the address 80 and address 082 at the address A9. 2) Set the illuminometer (TOPCON IM-3) on the LCD panel surface (do not allow entry of external light). 3) Connect the illuminometer to the oscilloscope. 4) Make an adjustment so as to minimize the ripple of output waveform. Response time: 0.6 sec 5) Adjust again if longitudinal stripe appears evidently. 6) Set data of address 082 at the address 40. (Restore) * Or set to the point where the black is settled deepest with the grey scale signal.
Adjustment standard	Minimum
Remarks	Make an adjustment after aging for 5 minutes or more.

9. W/B adjustment

Measuring point	LCD panel display surface
Address	090, 092
Mode	VCR
Adjusting method	1) Set data of address 0A5 at the address 80, and address 082 at the address A9. 2) Adjust so as to get the same white screen as that of standard monitor. (Adjust again, visually checking as stated in item 3. 4.) 3) Set data of address 082 at the address 40. (Restore)
Adjustment standard	Standard monitor
Remarks	Make an adjustment after aging for 5 minutes or more.

5-4-2-1. Checking the power supply voltage

- Measuring terminal:
 - P-CON 4.9V
 - P-CON 3.1V
 - CAM 15V
 - CAM -8V
 - LENS 5.7V
- Measuring instrument: Digital voltmeter

5-4-2-2. Auto focus adjustment**• Basic iris adjustment**

Measuring instrument	None
Subject	—
Tape	—
Test point	None
Adjustment address	71
Adjustment level	09, 0A, 0B

DATA	Adjustment
09	Hall offset
0A	Iris offset
0B	Iris close

- Set up the auto focus adjustment mode. (Write 01 to the address 70)
- Write the adjustment data 09, 0A and 0B one after the other to the address 71, the adjustment are as above.

• Lens adjustment

Measuring instrument	None
Subject	More than 50 m away
Tape	—
Test point	None
Adjustment address	71
Adjustment level	12, 06, 08, 0D

DATA	Adjustment
12	Optical wide-end adjustment
06	Wide-end focus ∞ position adjustment
08	Tele-end focus ∞ position adjustment
0D	Zoom tracking adjustment

- Set up the auto focus adjustment mode.
(This is unnecessary after the above basic iris adjustment has been made.)
- Write the adjustment data 12, 06, 08 and 0D one after the other to the address 71. The adjustments are as above.
Write FF to the address 70 to exit the auto focus adjustment mode.

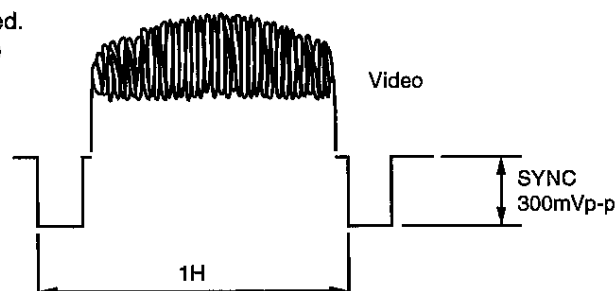
5-4-2-3. Adjustment of Camera signal

- Before starting these adjustment, auto focus adjustment must be finished.
- Set up the camera signal adjustment mode (Write 00 to the address 70)

1. Sync level adjustment

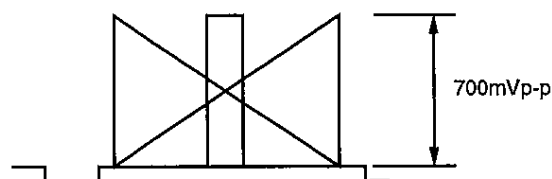
Measuring instrument	Oscilloscope
Subject	Anything
Tape	—
Test point	VIDEO OUT (Terminated in 75 Ω)
Adjustment address	74
Adjustment level	300mVp-p

- Connect the oscilloscope to the VIDEO-OUT. Adjust the sync level to 300mVp-p.

**2. Iris AE adjustment**

Measuring instrument	Oscilloscope
Subject	Gray scale
Tape	—
Test point	VIDEO-OUT
Adjustment address	9C
Adjustment level	700mVp-p

- Shoot the gray scale in the standard way. Observe the VIDEO-OUT signal on the oscilloscope screen and rewrite the data of address 9C to get an amplitude of 700mVp-p as shown above.

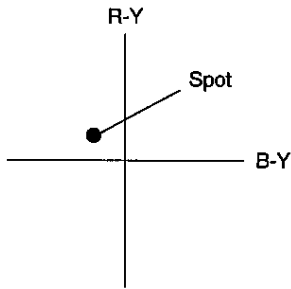
**3. Black balance , AF noise level adjustment**

Measuring instrument	None
Subject	Anything
Tape	—
Test point	None
Adjustment address	71
Adjustment level	01

- Write the data 01 to the address 71.
The following adjustments are automatically carried on ;
 ① Black balance adjustment
 ② AF noise level adjustment
 at AGC Gain Min , AGC Gain Max and Gain up.

4. White balance adjustment

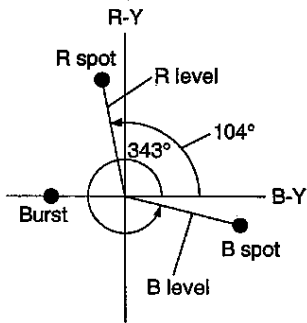
Measuring instrument	Vector scope
Subject	Gray scale
Tape	—
Test point	VIDEO OUT (Terminated in 75 Ω)
Adjustment address	R-W/B 00, B-W/B 02
Adjustment level	R-W/B 17 % ± 3 % B-W/B -7 % ± 3 %



- 1) Adjust the spot to the center of vector scope (R-Y : 17%, B-Y : -7%) using address 00 and 02.

5. Color gain adjustment

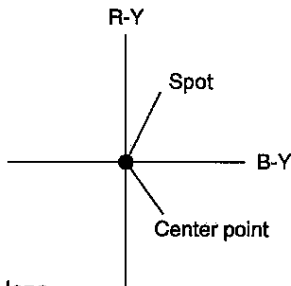
Measuring instrument	Vector scope
Subject	Color bar chart
Tape	—
Test point	VIDEO OUT (Terminated in 75 Ω)
Adjustment address	R GAIN 1C4 B GAIN 1C2 R MAT 1C0 B MAT 1BE
Adjustment level	R GAIN; Burst ratio 1.4 ± 0.1 B GAIN; Burst ratio 1.0 ± 0.1 R MAT; 104 ± 2° B MAT; 343 ± 2°



- 1) Using the address 1C4, adjust the R level to a burst ratio of 1.4. With the address 1C2, adjust the B level to a burst ratio of 1.0.
2) Using the address 1C0, adjust the R phase to 104°. With the address 1BE, adjust the B phase to 343°.
3) Repeat the above steps 1) and 2).

6. Out door white balance adjustment

Measuring instrument	Vector scope
Subject	Gray scale
Tape	—
Test point	VIDEO OUT (Terminated in 75 Ω)
Adjustment address	R-OUT DOOR 6C B-OUT DOOR 6E
Adjustment level	R-OUT DOOR; 0 ± 3 % B-OUT DOOR; 0 ± 3 %

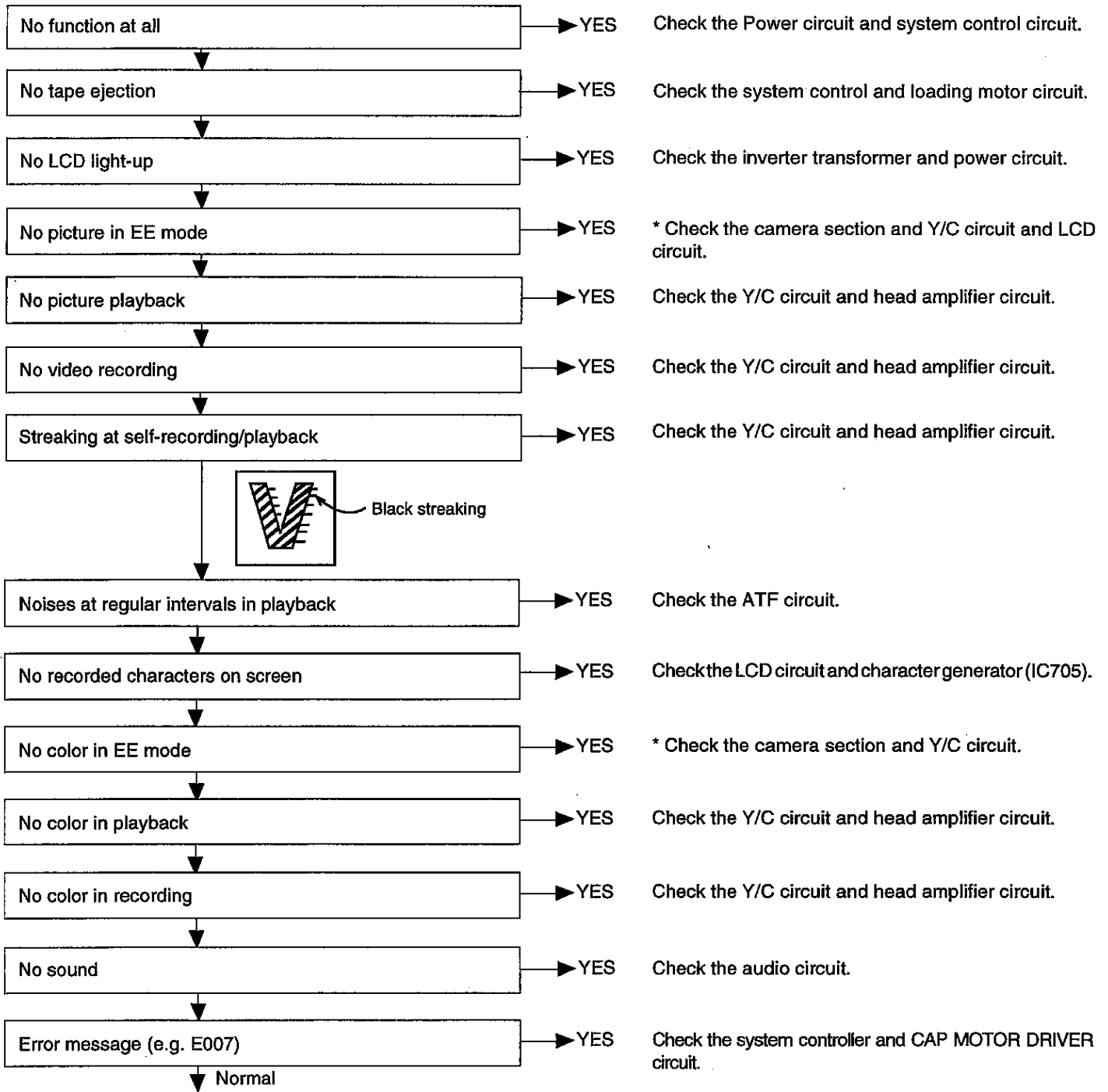


- 1) Attach the color temperature conversion filter (JiGHOYA-LB165) to the front of the lens.
2) Using the addresses R-OUT DOOR 6C and B-OUT DOOR 6E, adjust the spot to the center.
3) Take off the color temperature conversion filter.

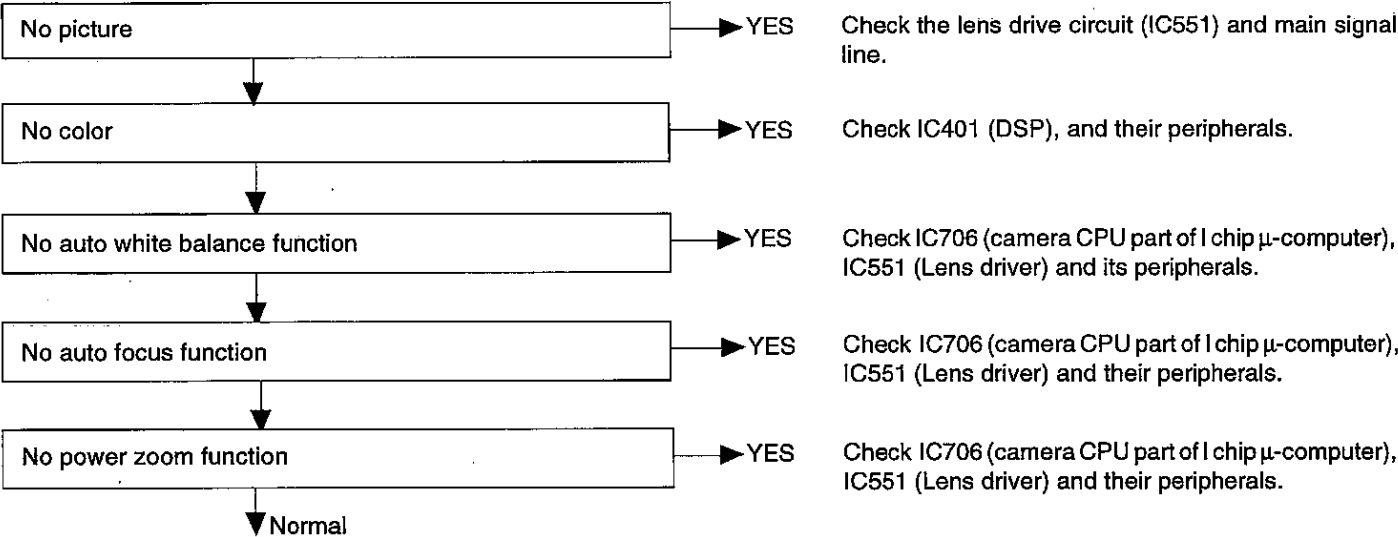
When you have finished, write FF to the adress 70 to exit camera signal adjustment mode.

5-5. TROUBLE SHOOTING

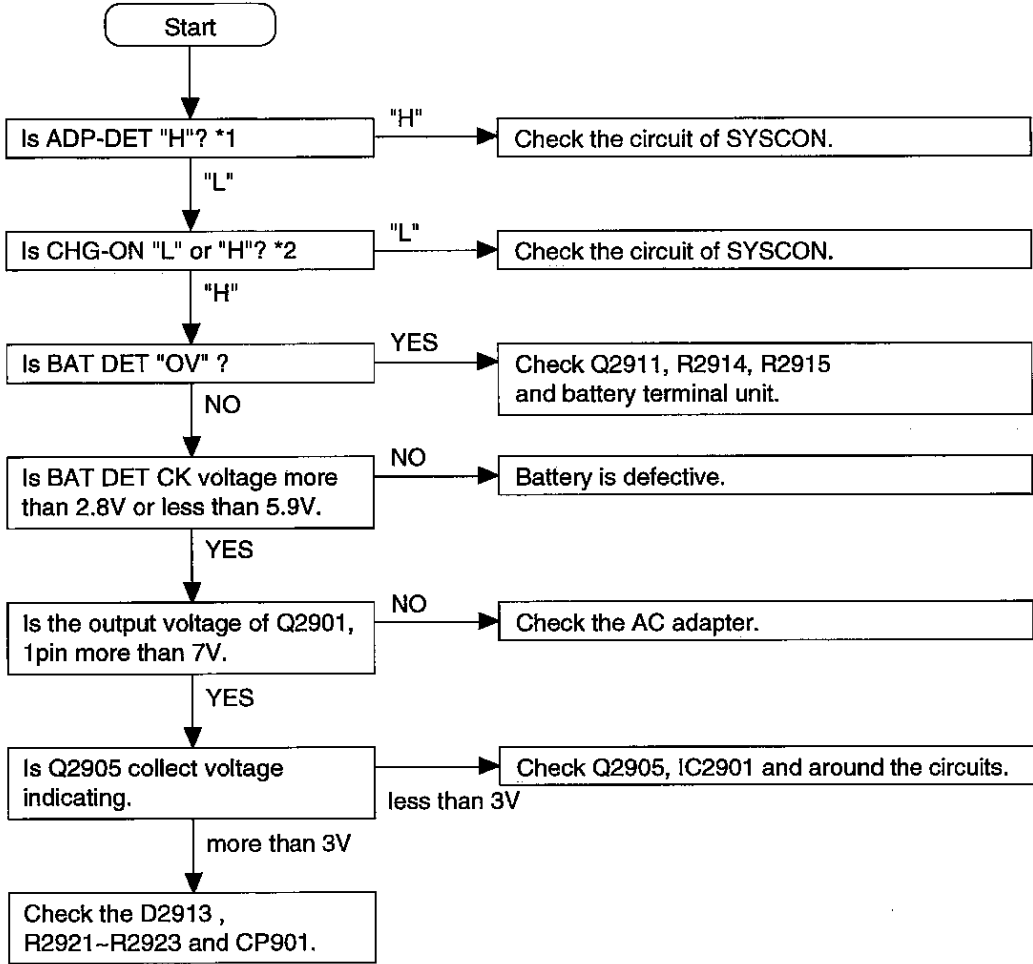
5-5-1. Classification of troubles



5-5-2. Troubleshooting for the camera section

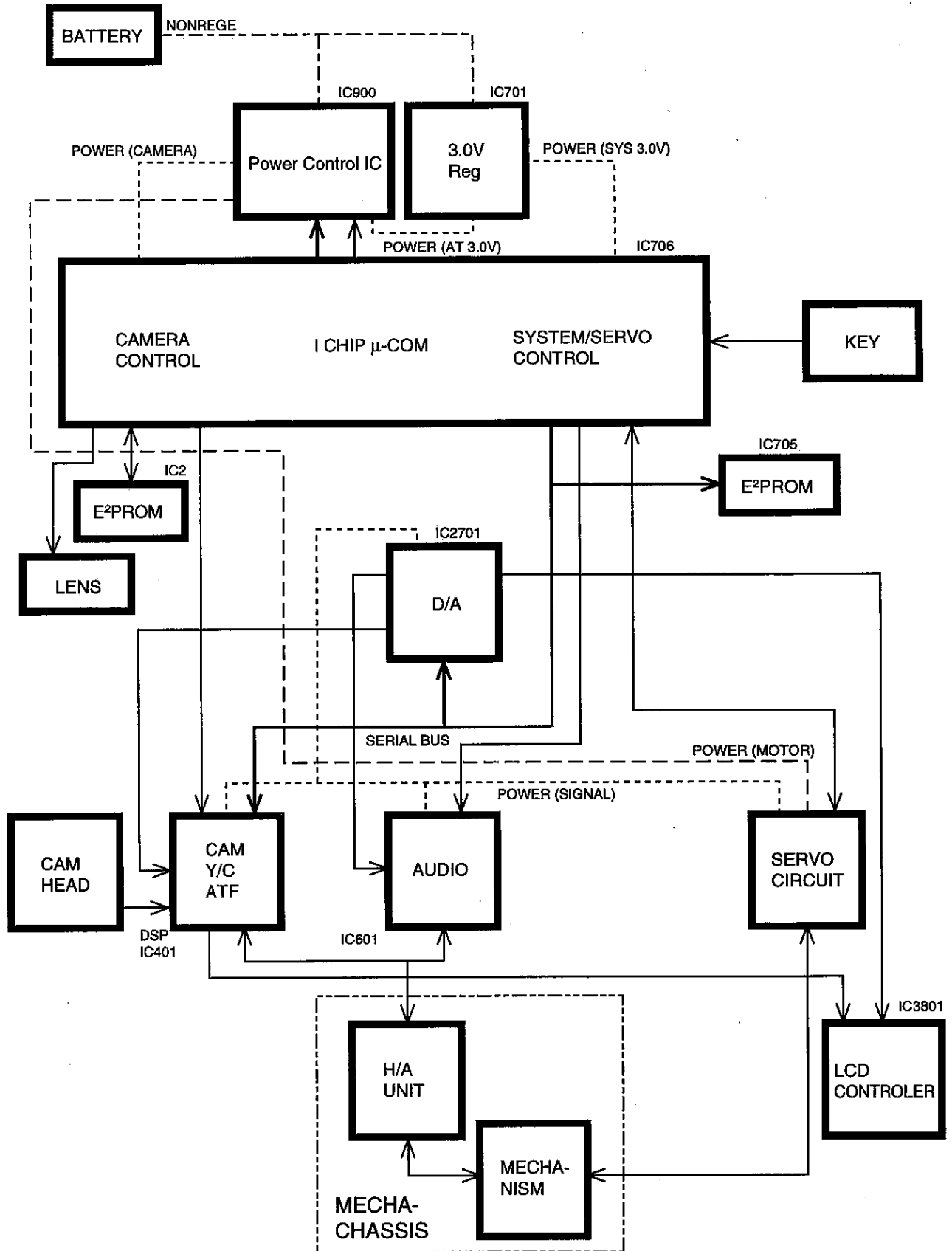


5-5-3. Charging mode troubles



*1: Inputting DC power and set the ADP DET "L".
*2: Inputting charging mode as CHG ON "H".

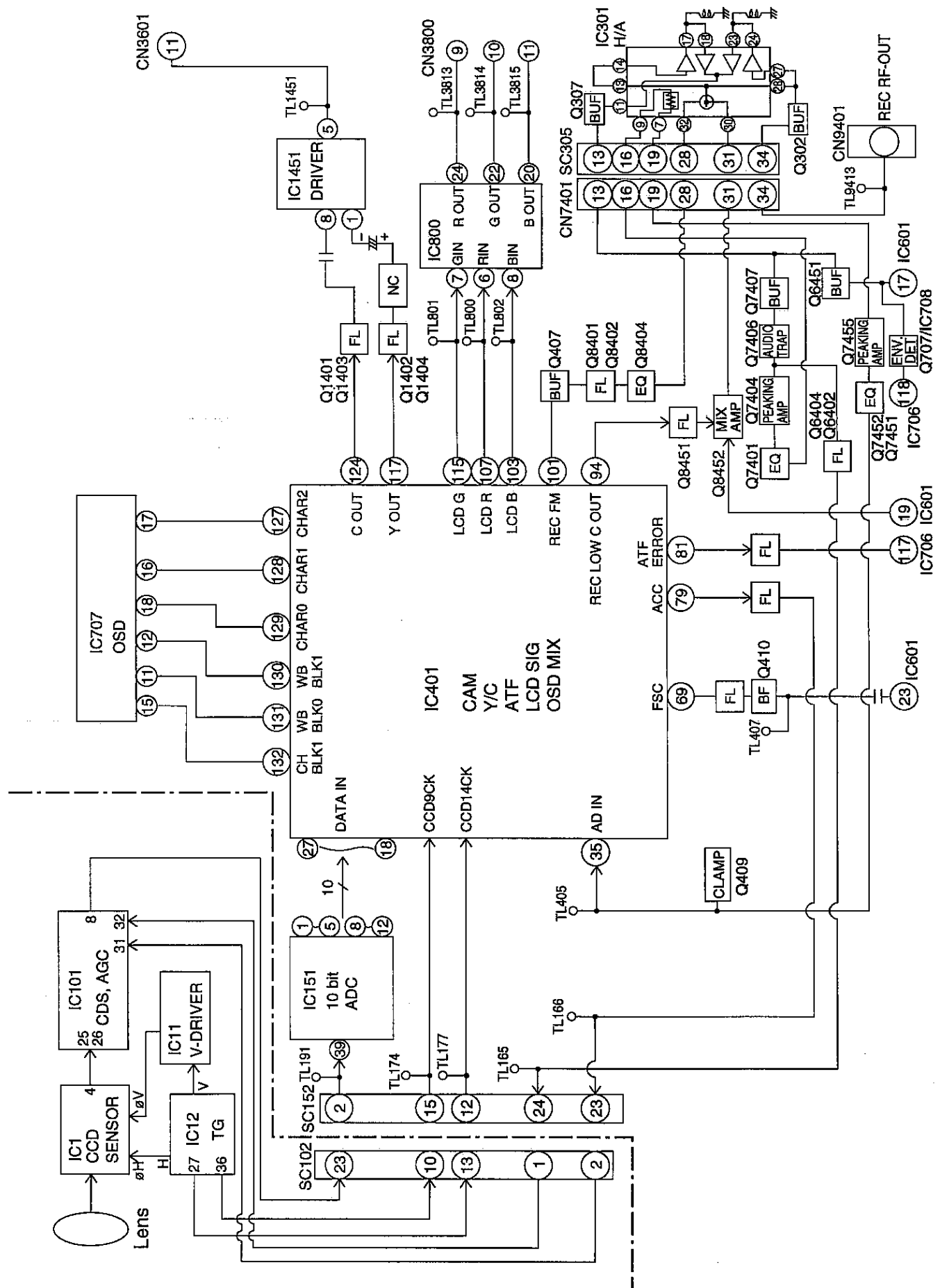
6. SYSTEM BLOCK DIAGRAMS



* On this model, all the circuits of the VCR and camera sections are controlled by IC706.

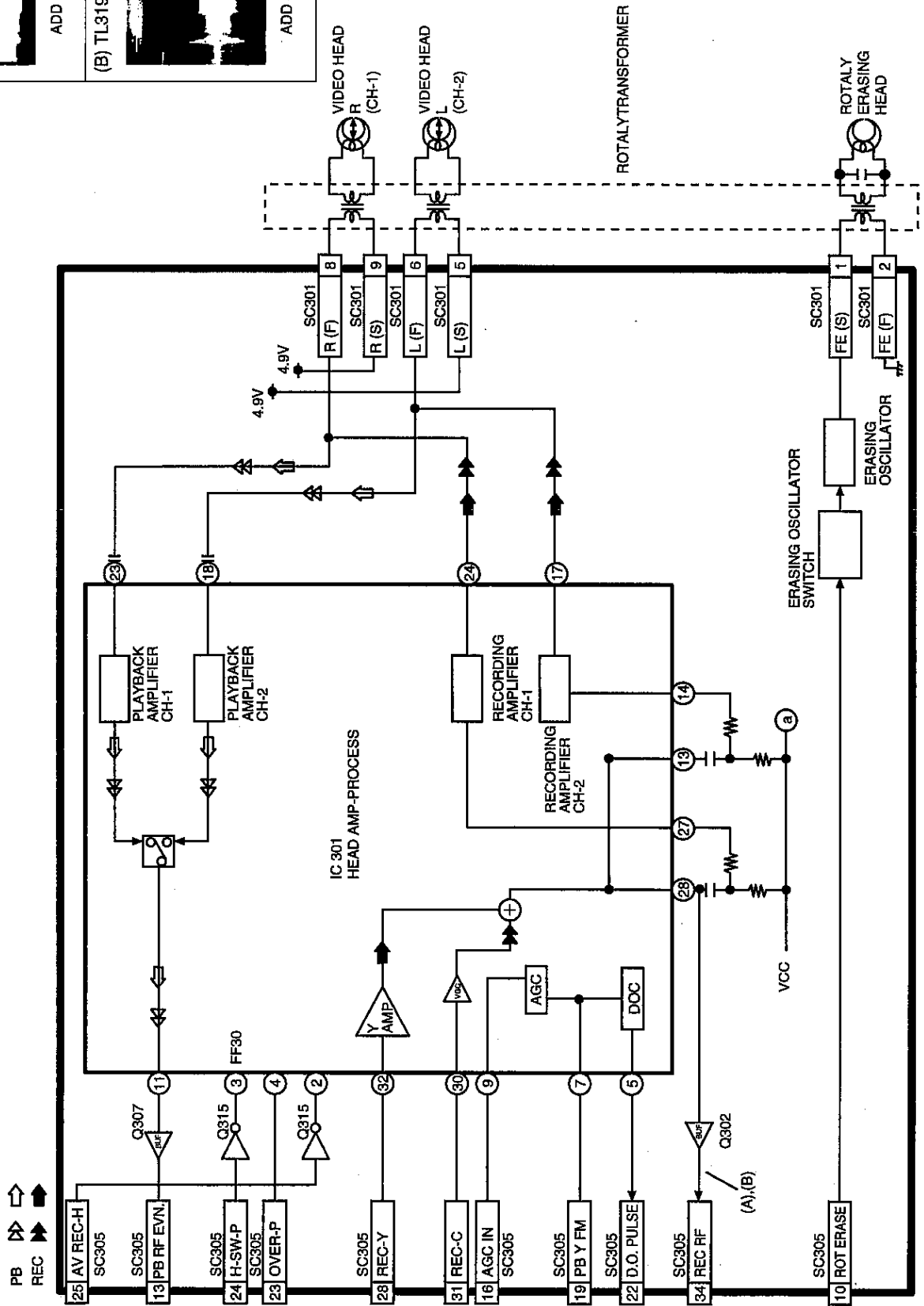
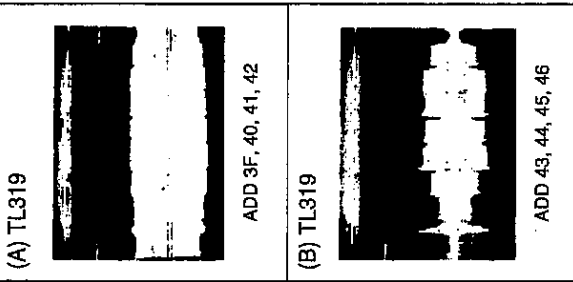
- 1) IC401 are controlled with the serial data from IC706.
- 2) IC703 is a memory that serves to store the adjustment data of the VCR section.
- 3) IC2 is a memory that serves to store the adjustment data of the camera section.
- 4) The other circuits and ICs are under the L/H level or the PWM control.

6-1. VIDEO SIGNAL BLOCK DIAGRAM

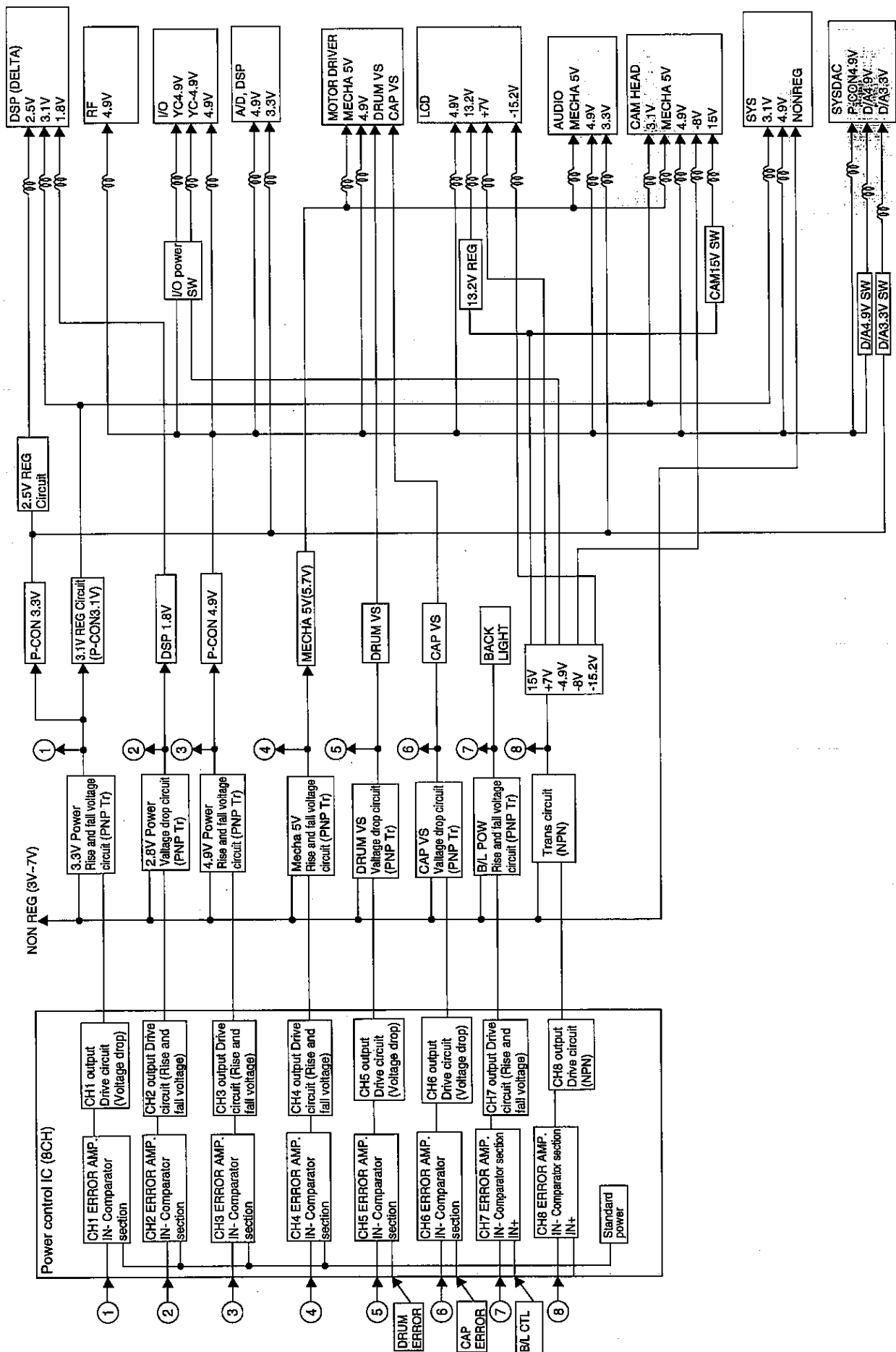


6-2. HEAD AMP BLOCK DIAGRAM

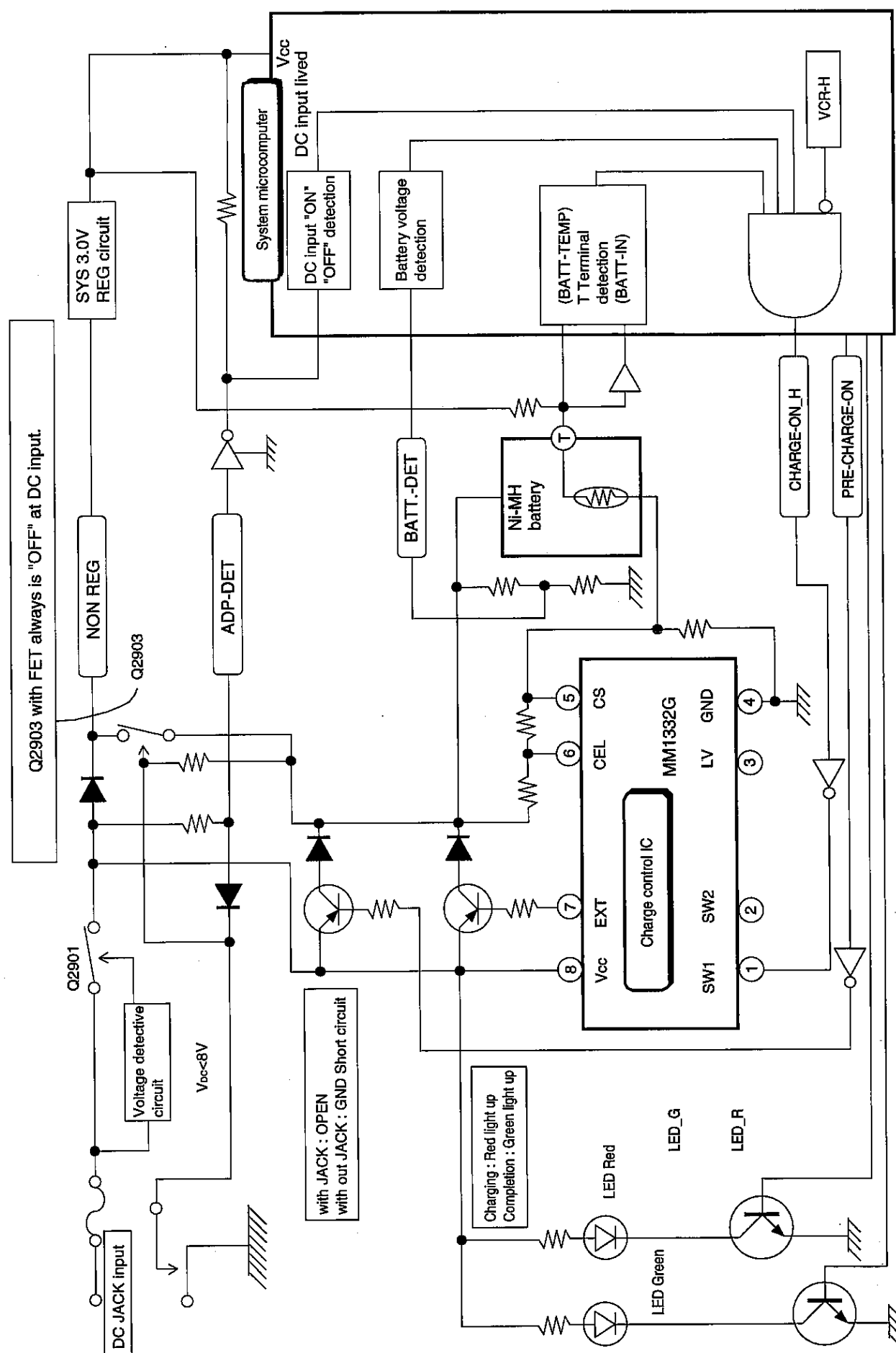
Signal waveform



6-3. POWER SYSTEM BLOCK DIAGRAM



6-4. MAIN BATTERY CIRCUIT SECTION BLOCK DIAGRAM

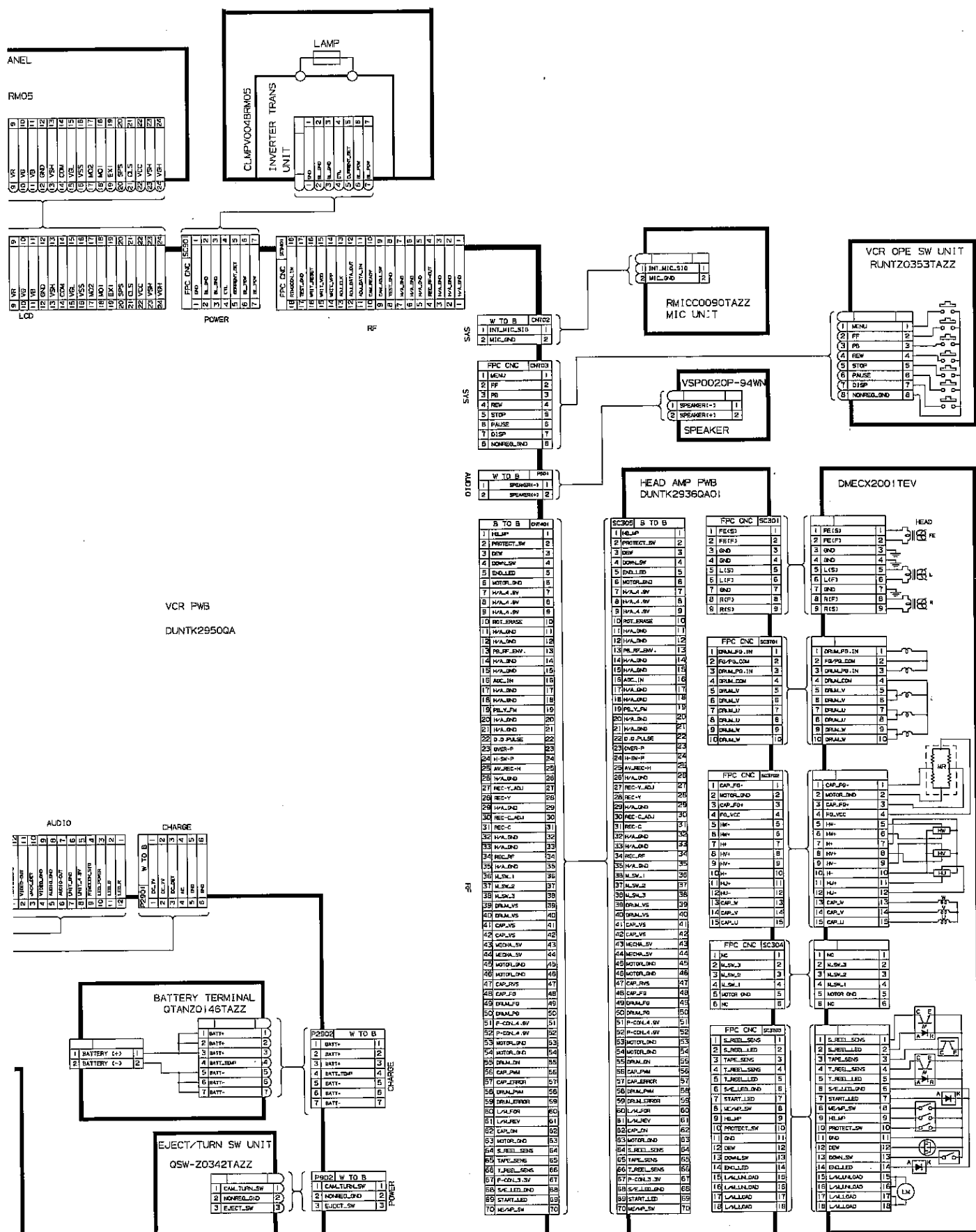




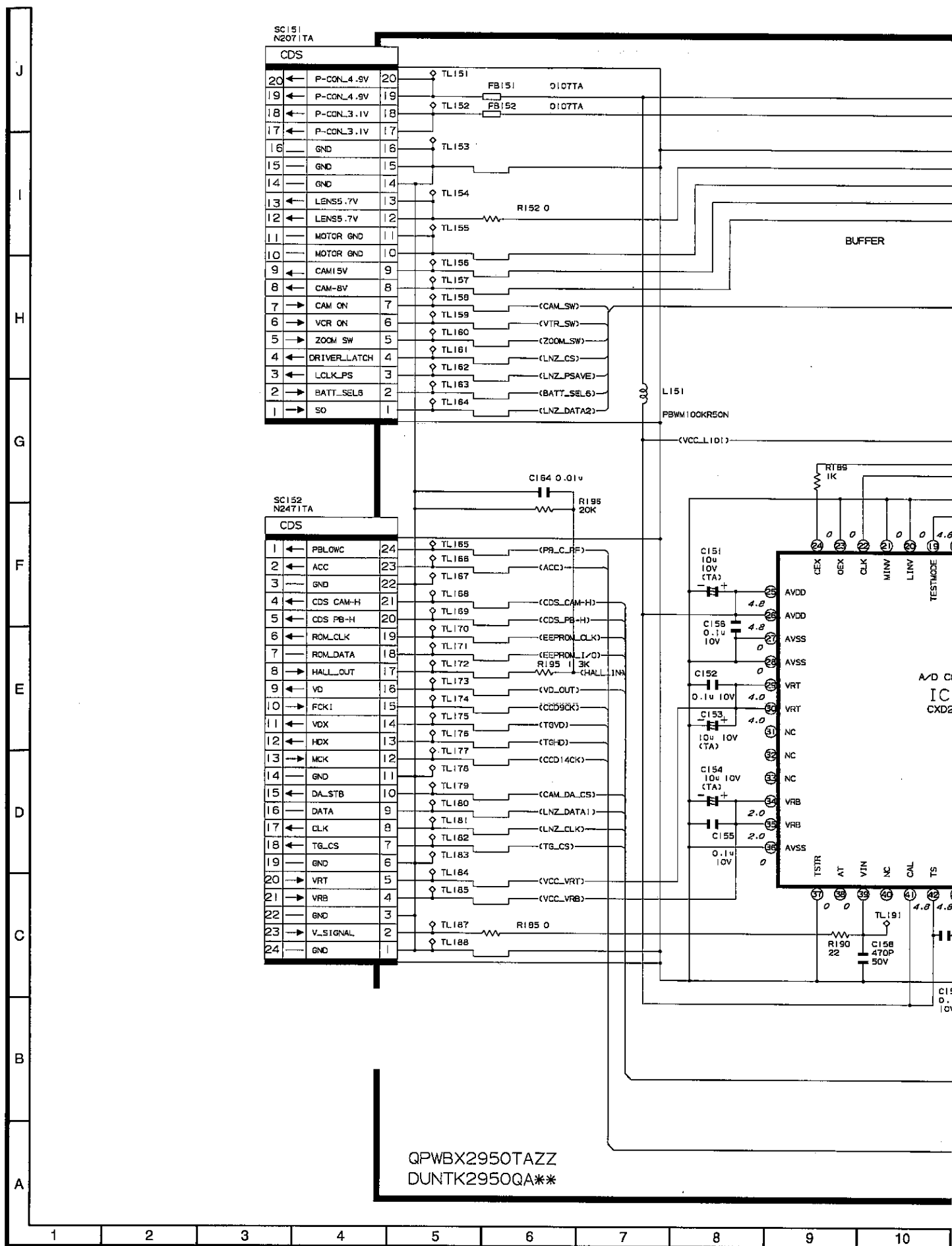
- M E M O -

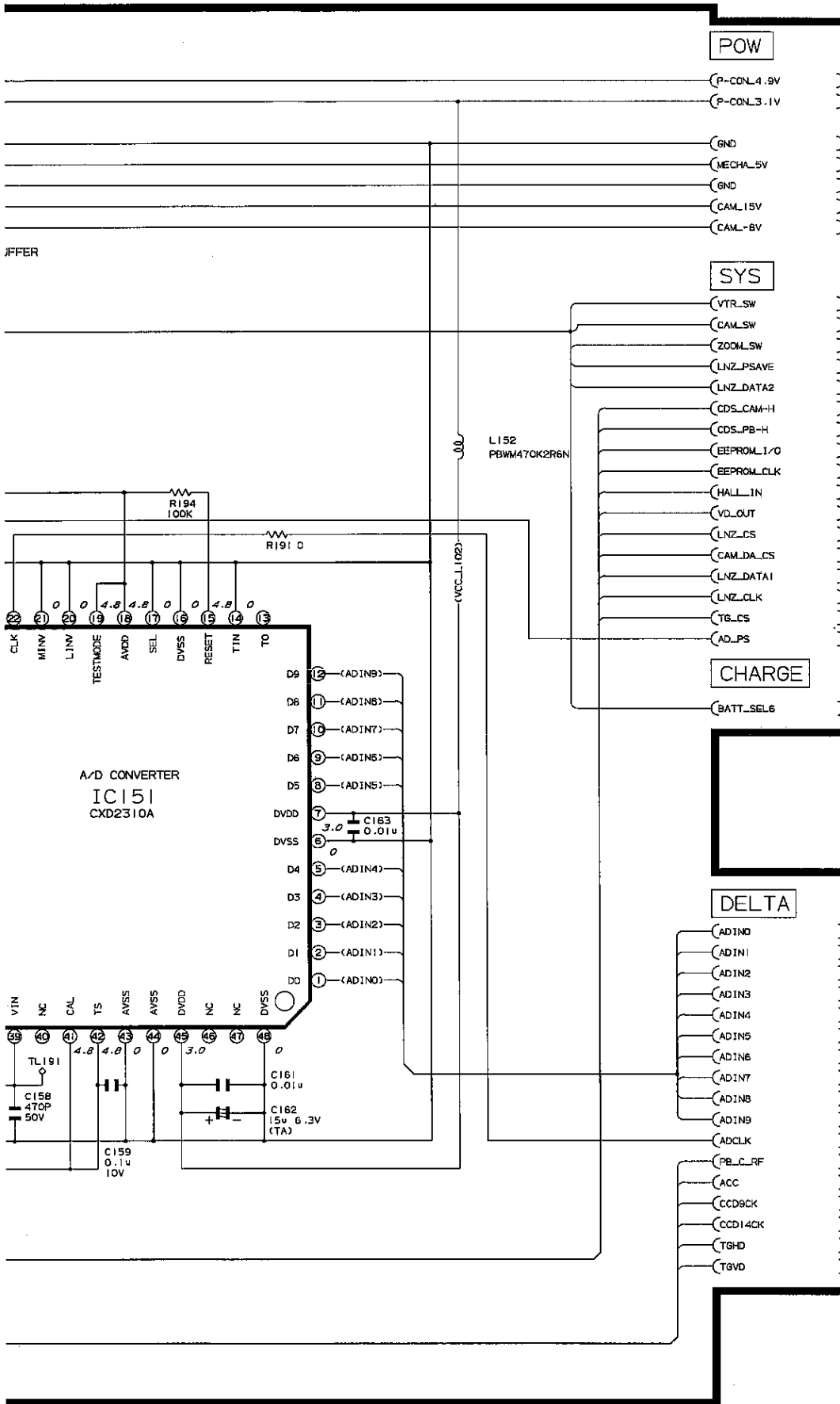
[illegible]





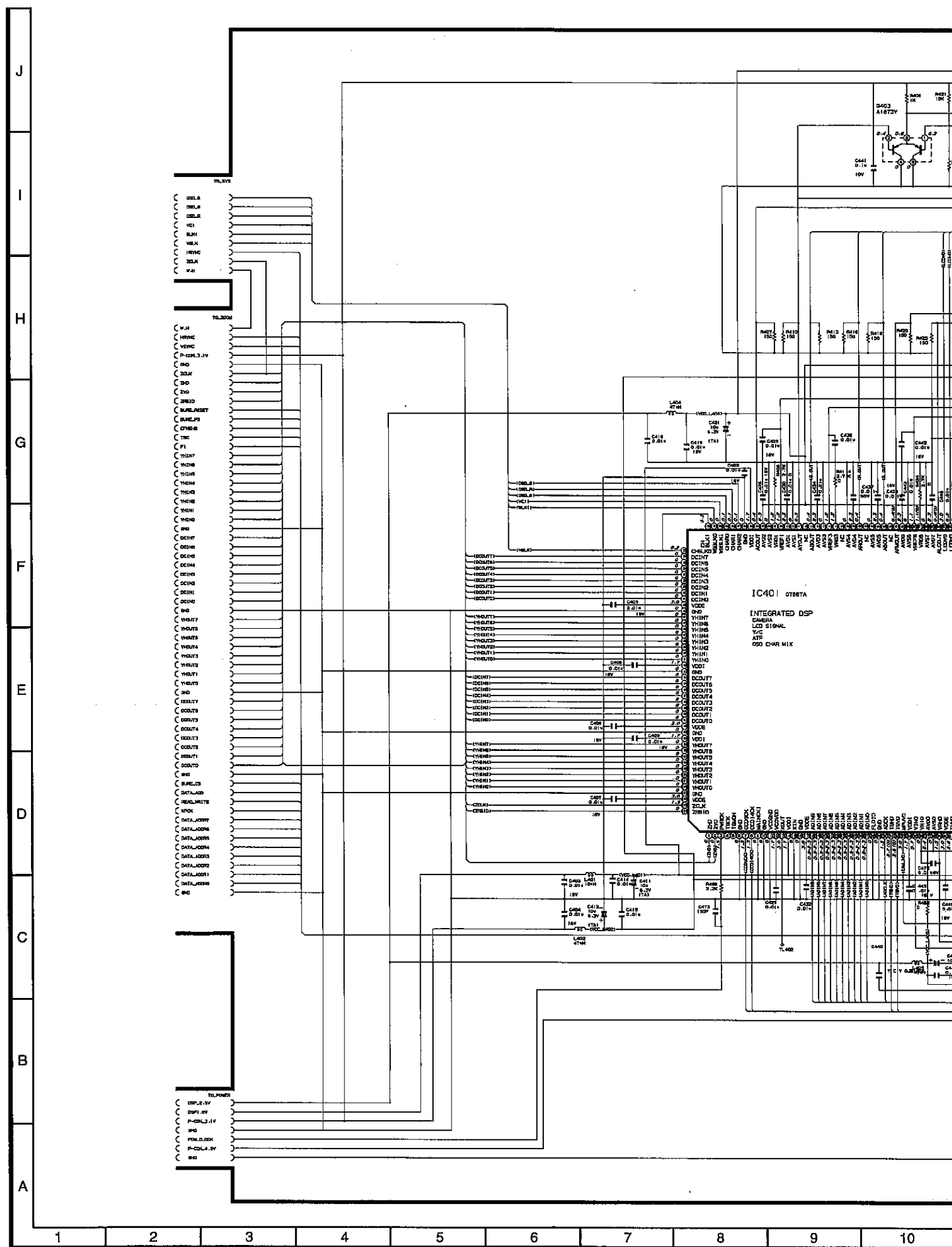
7-2. ADC SCHEMATIC DIAGRAM

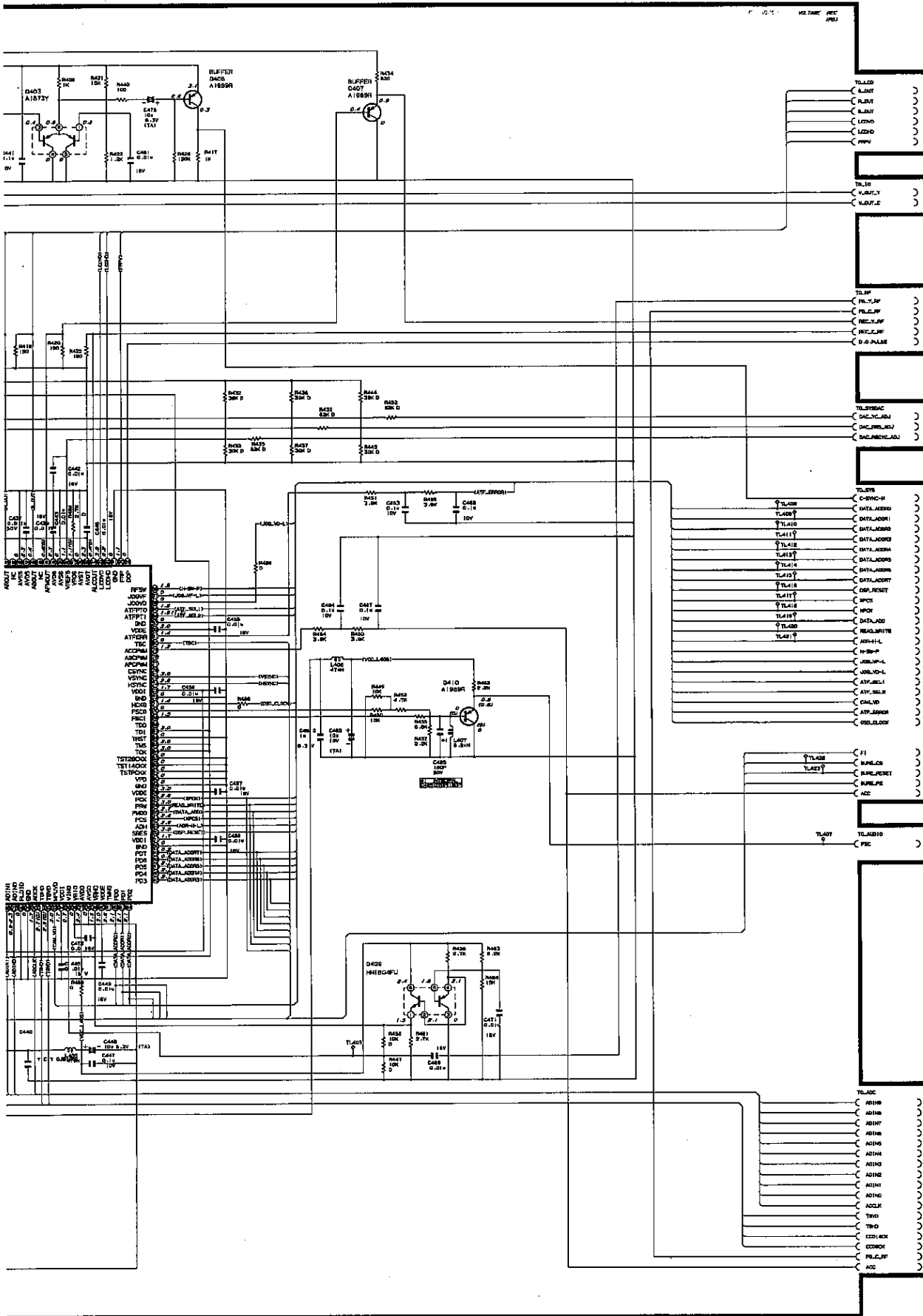




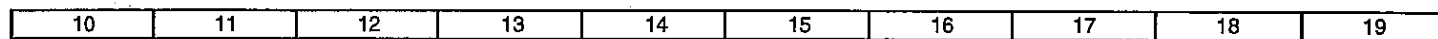
10	11	12	13	14	15	16	17	18	19
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7-3. DSP SCHEMATIC DIAGRAM





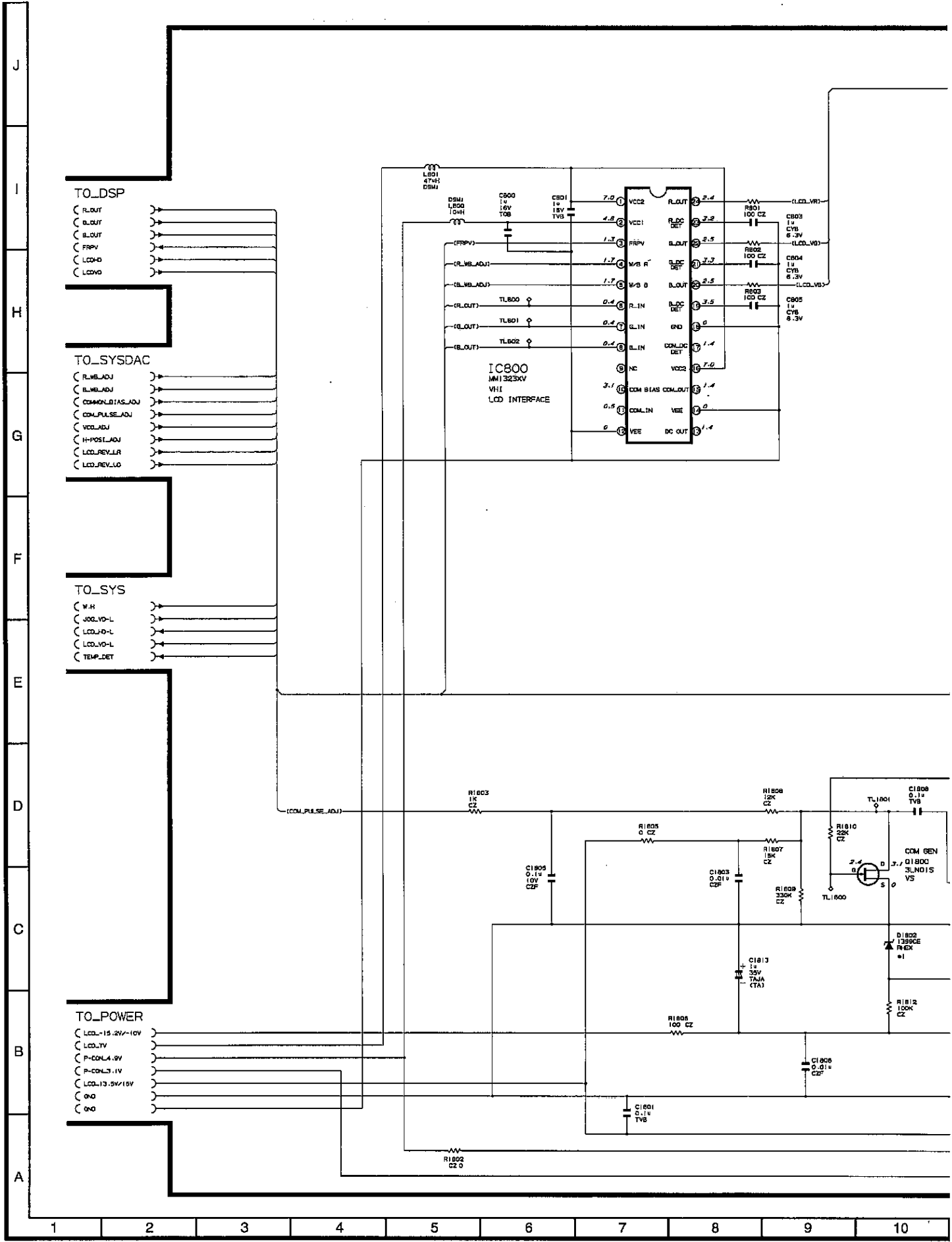


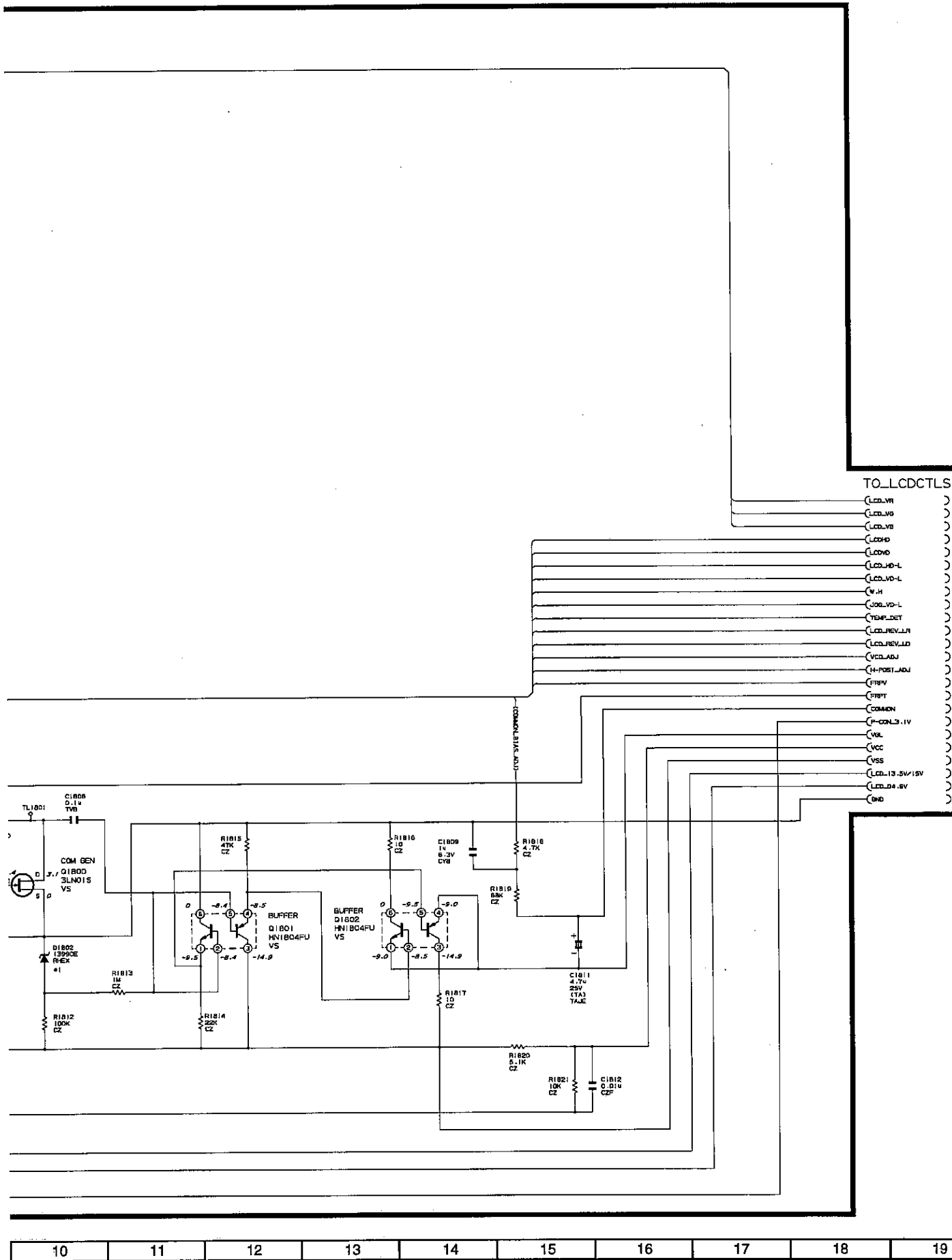




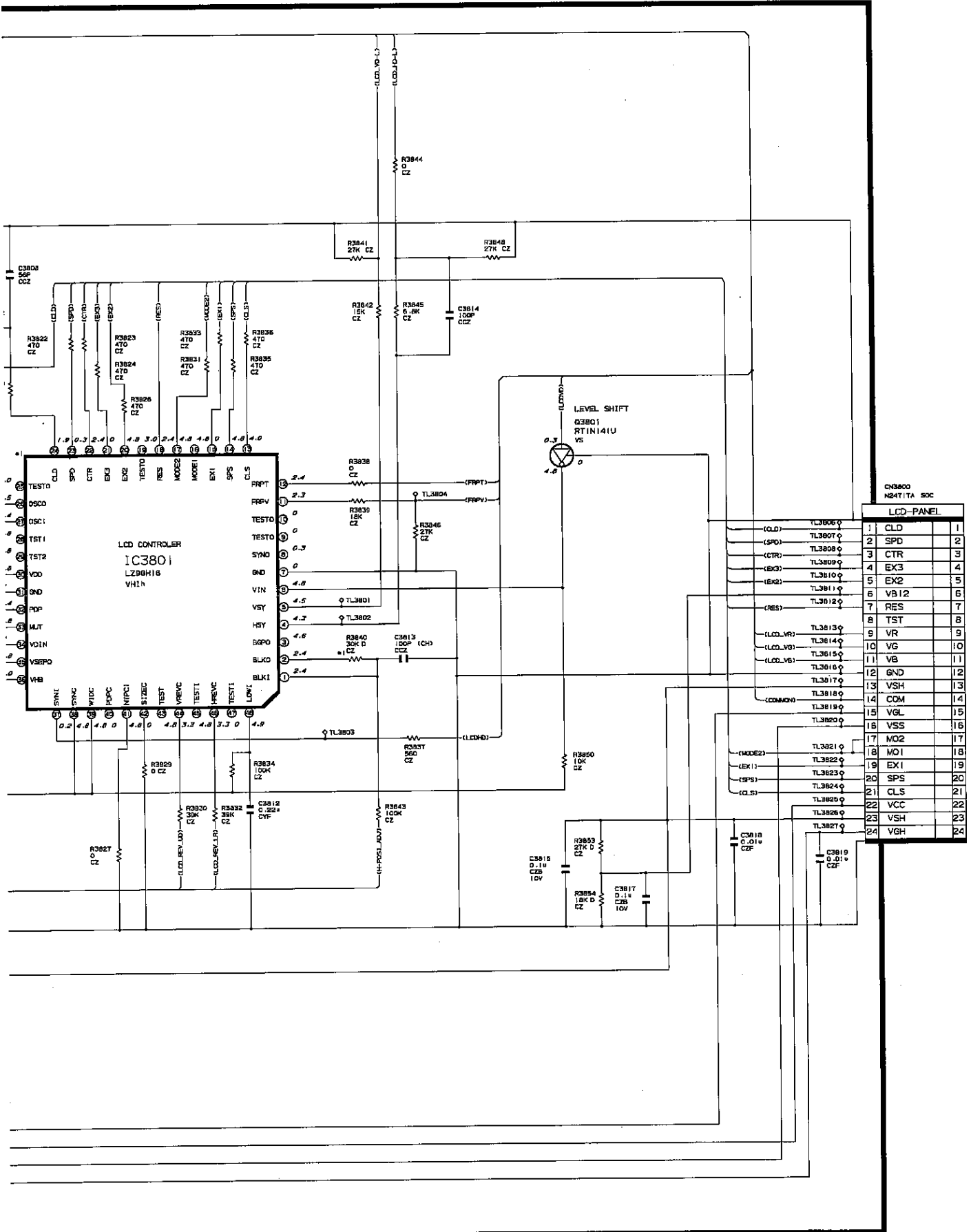


7-6. LCD_INT SCHEMATIC DIAGRAM



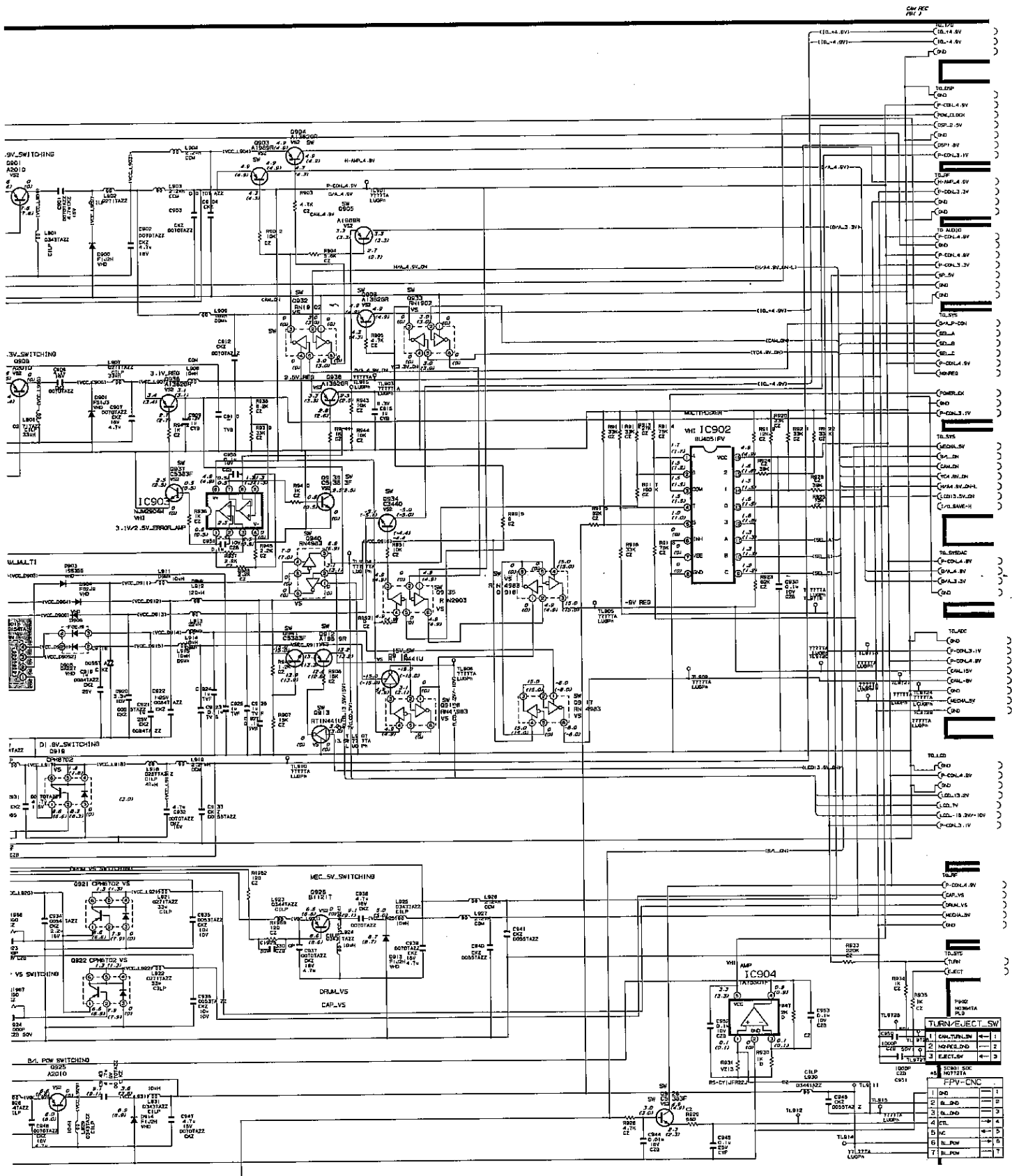






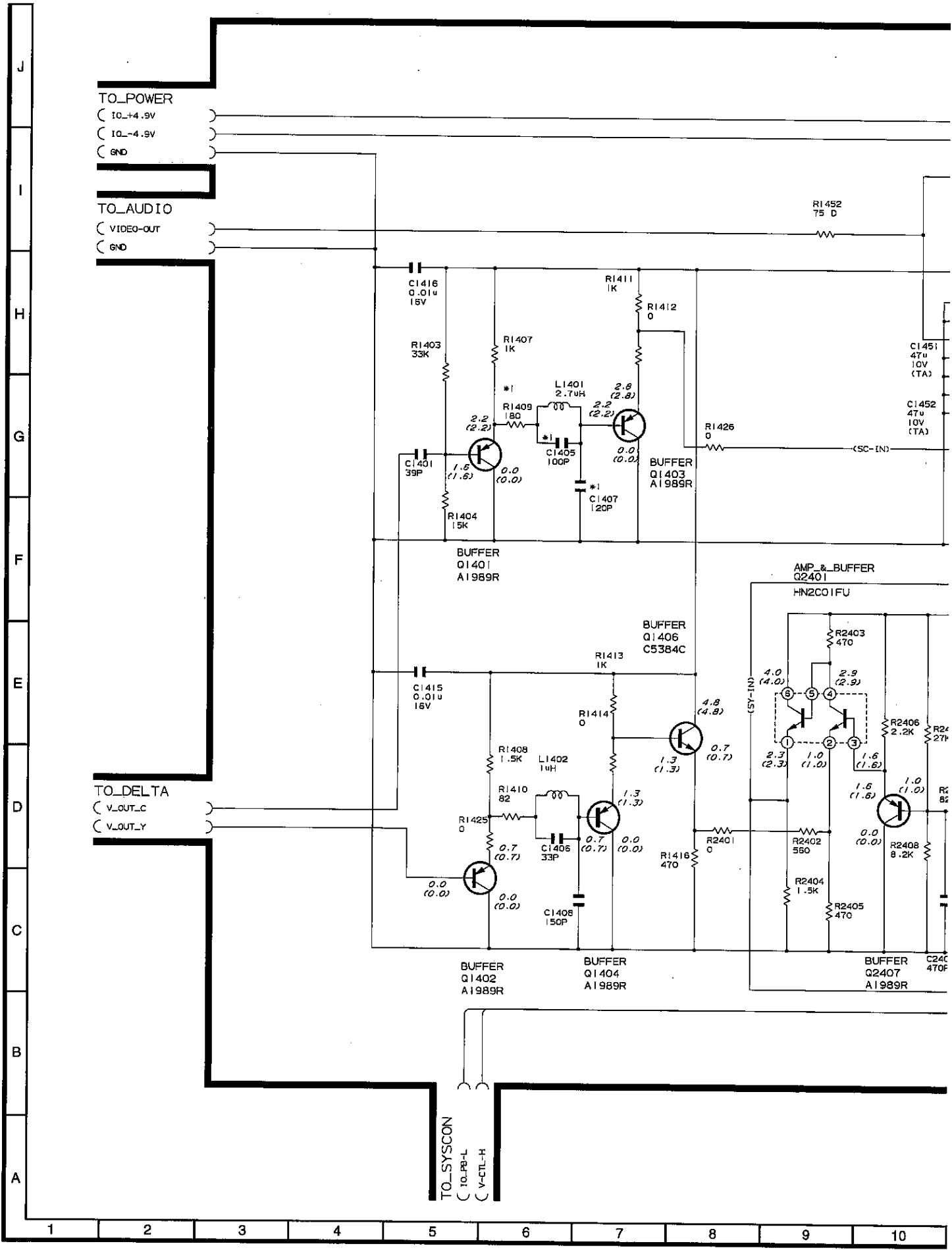


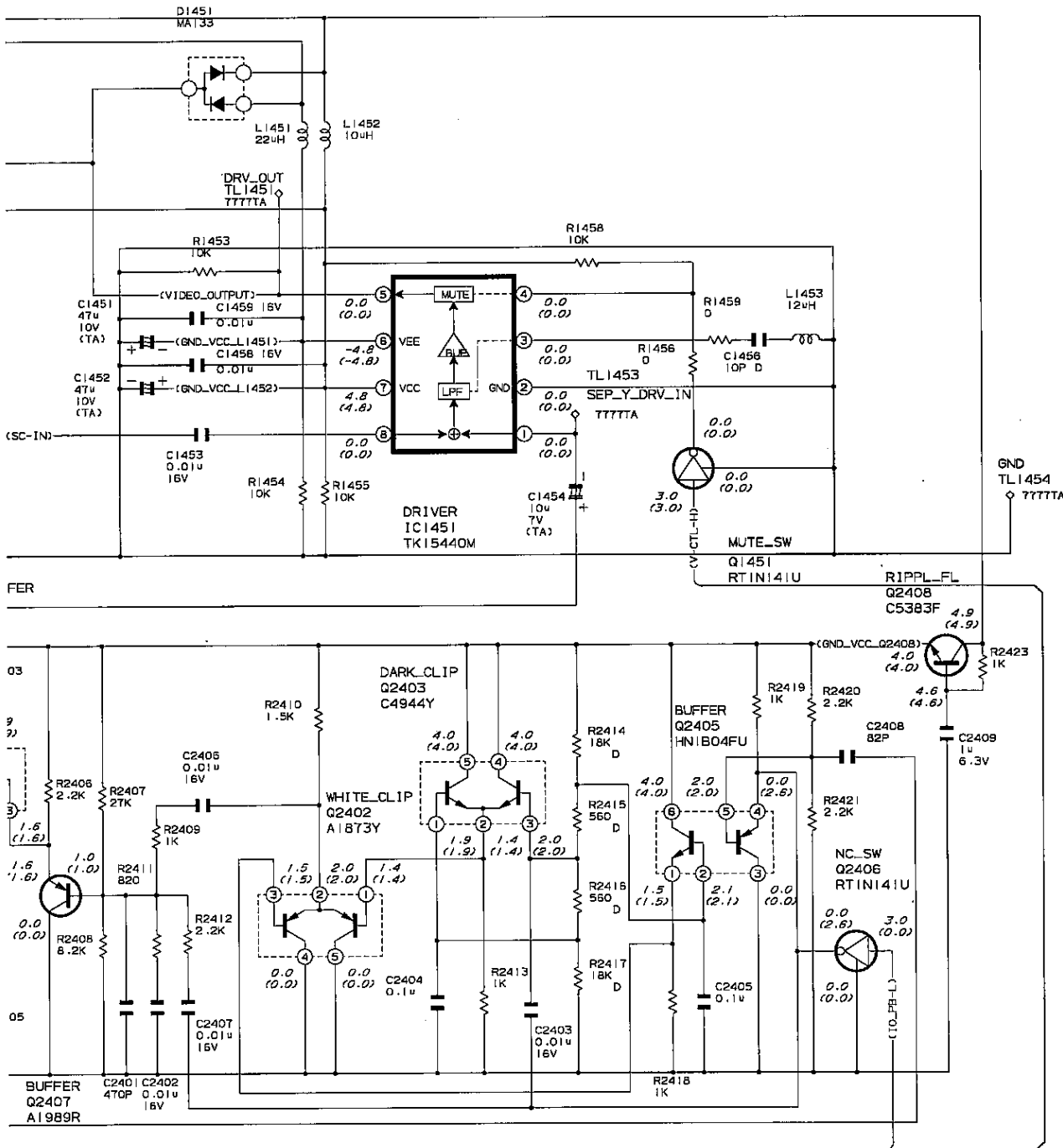
⚠ AND SHADED COMPONENTS=SAFETY RELATED PARTS



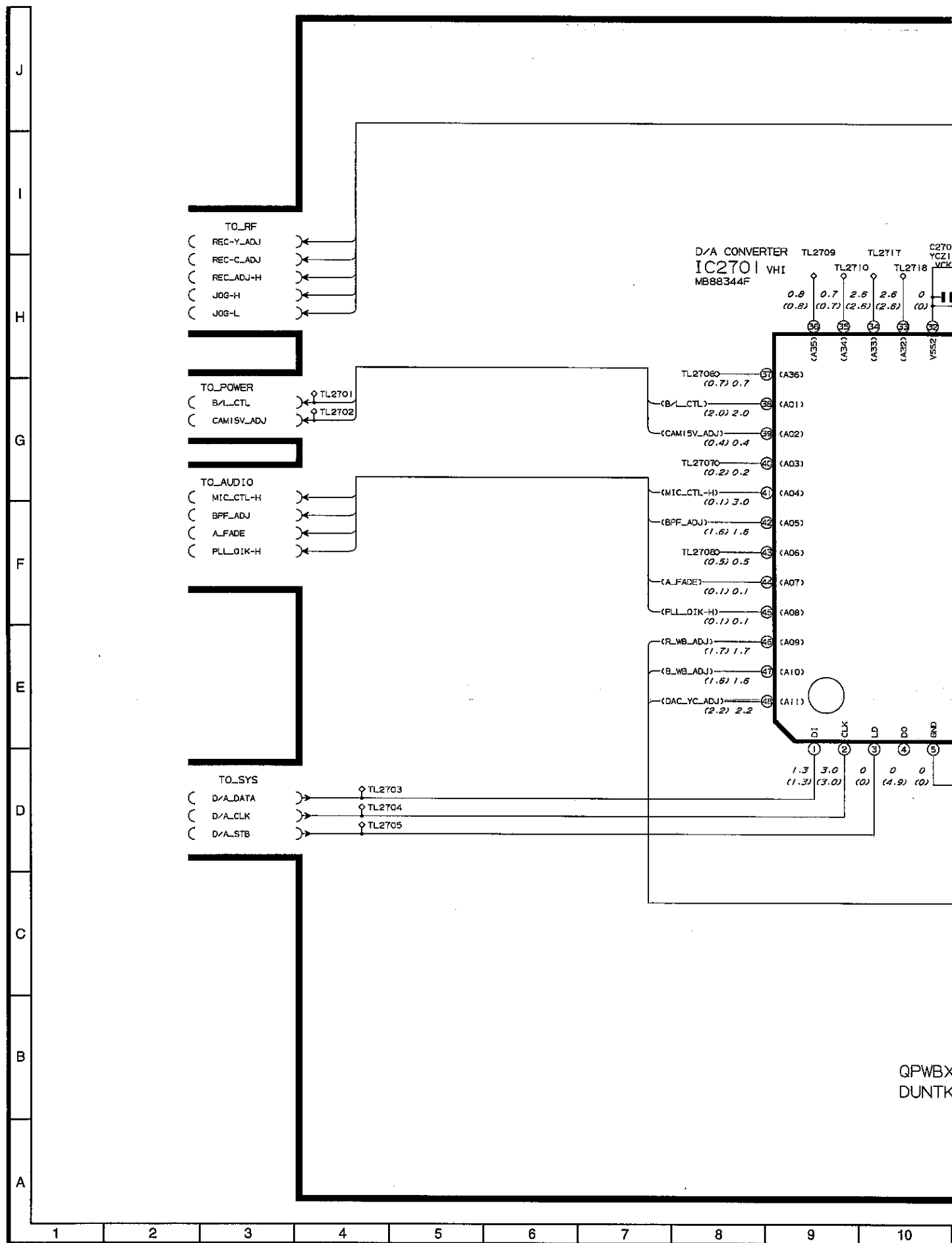
10	11	12	13	14	15	16	17	18	19
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7-9. I/O SCHEMATIC DIAGRAM

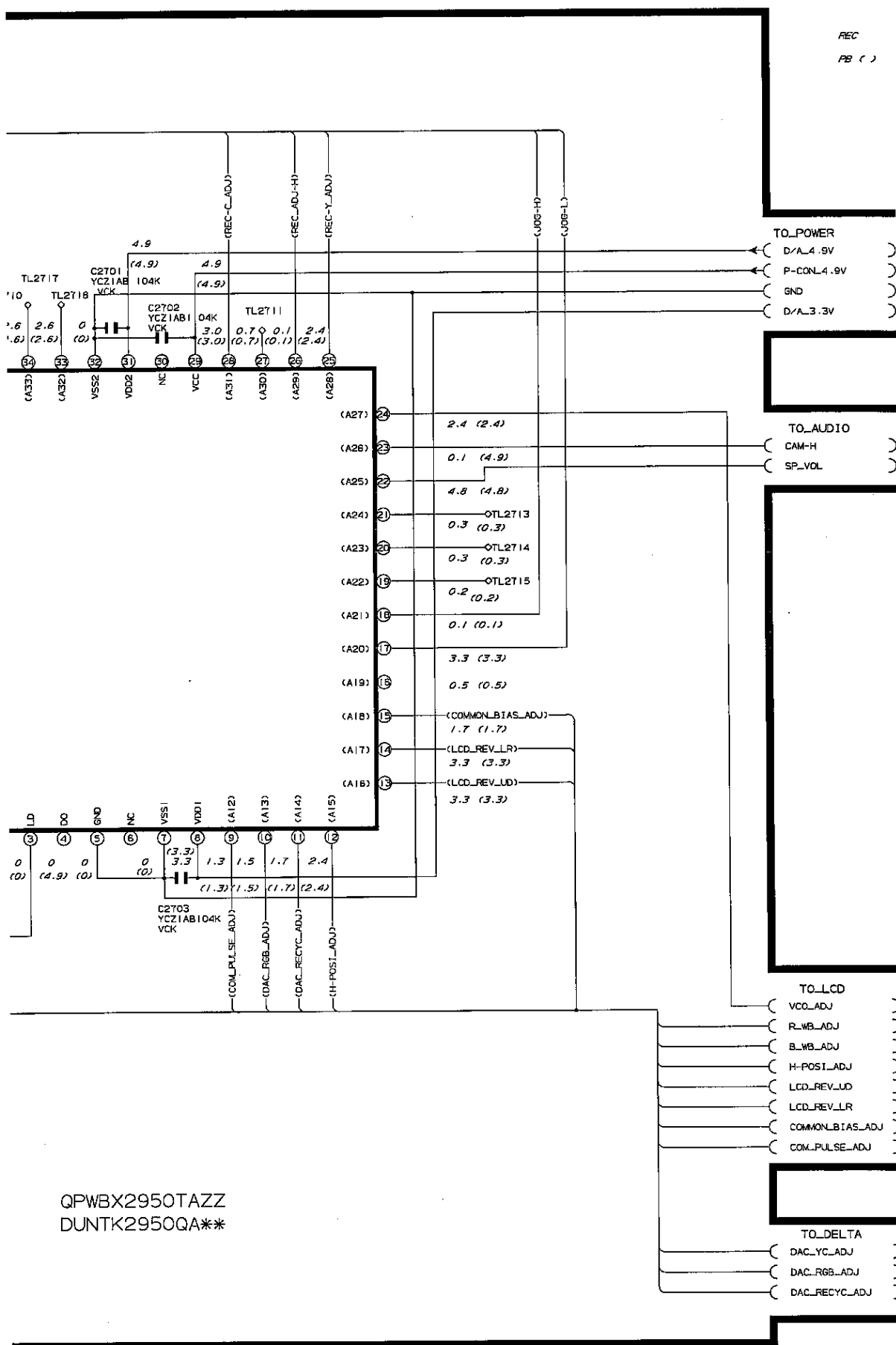




7-10. SYSDAC SCHEMATIC DIAGRAM



QPWBX
DUNTK



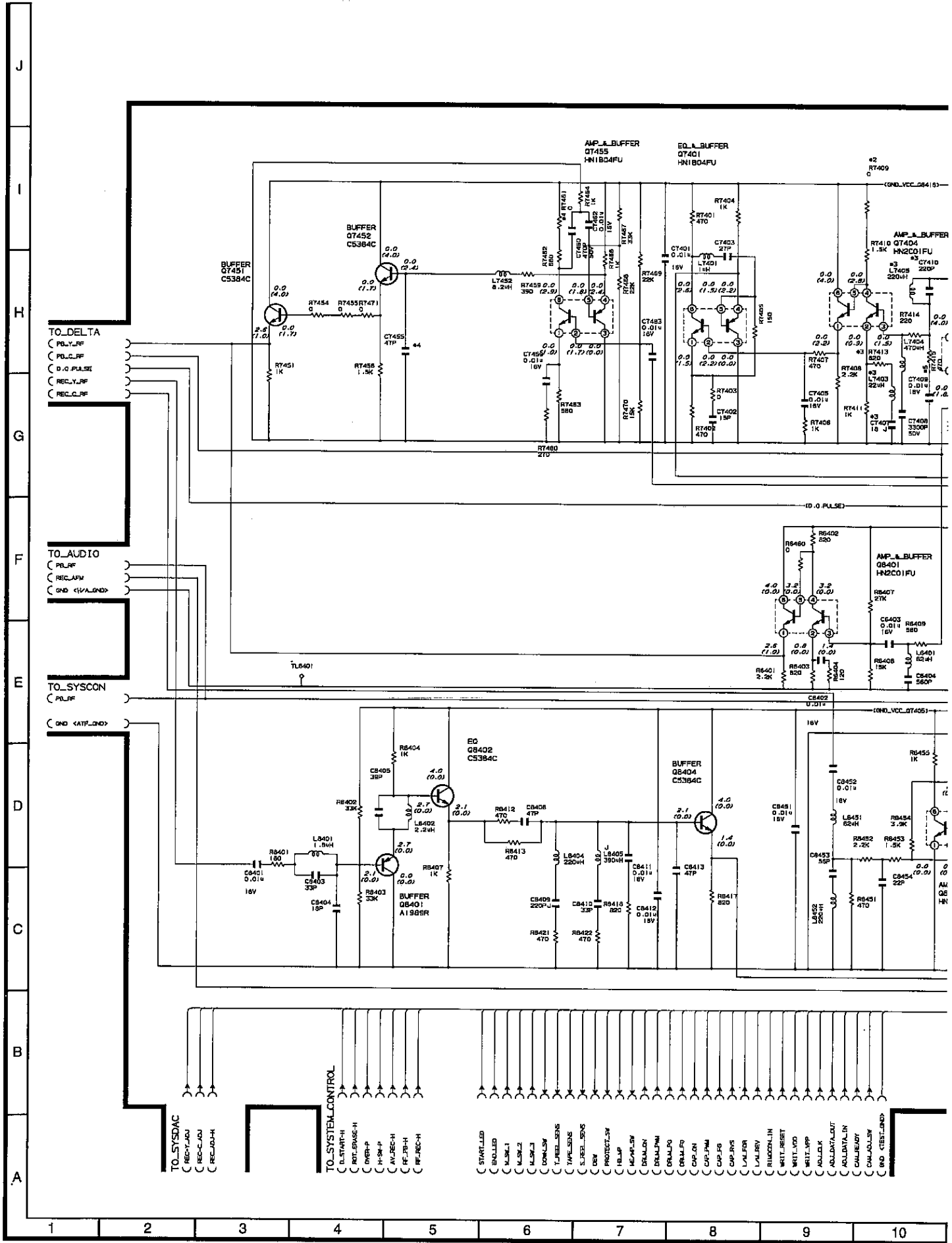
10	11	12	13	14	15	16	17	18	19
----	----	----	----	----	----	----	----	----	----

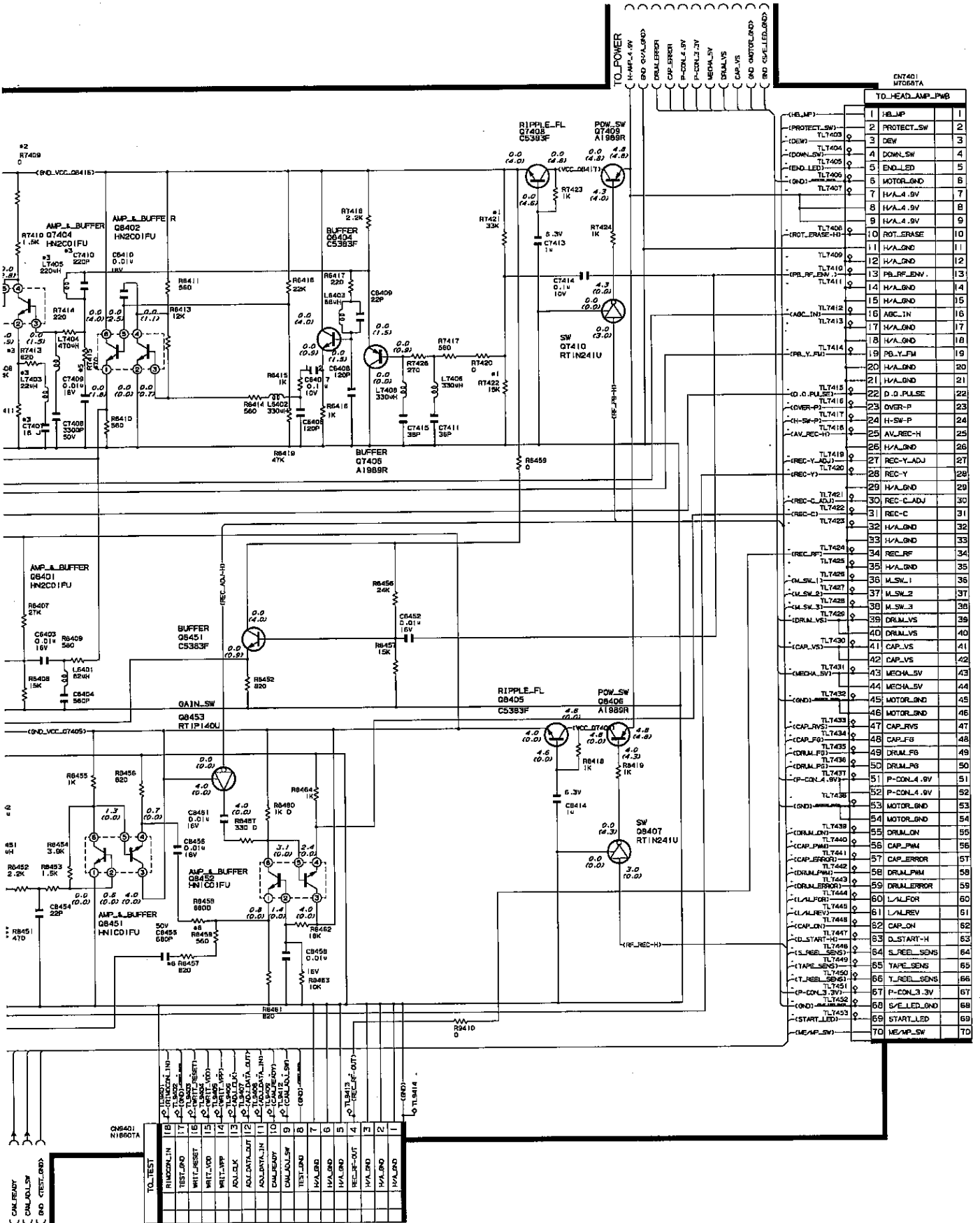


CHARGE OFF()

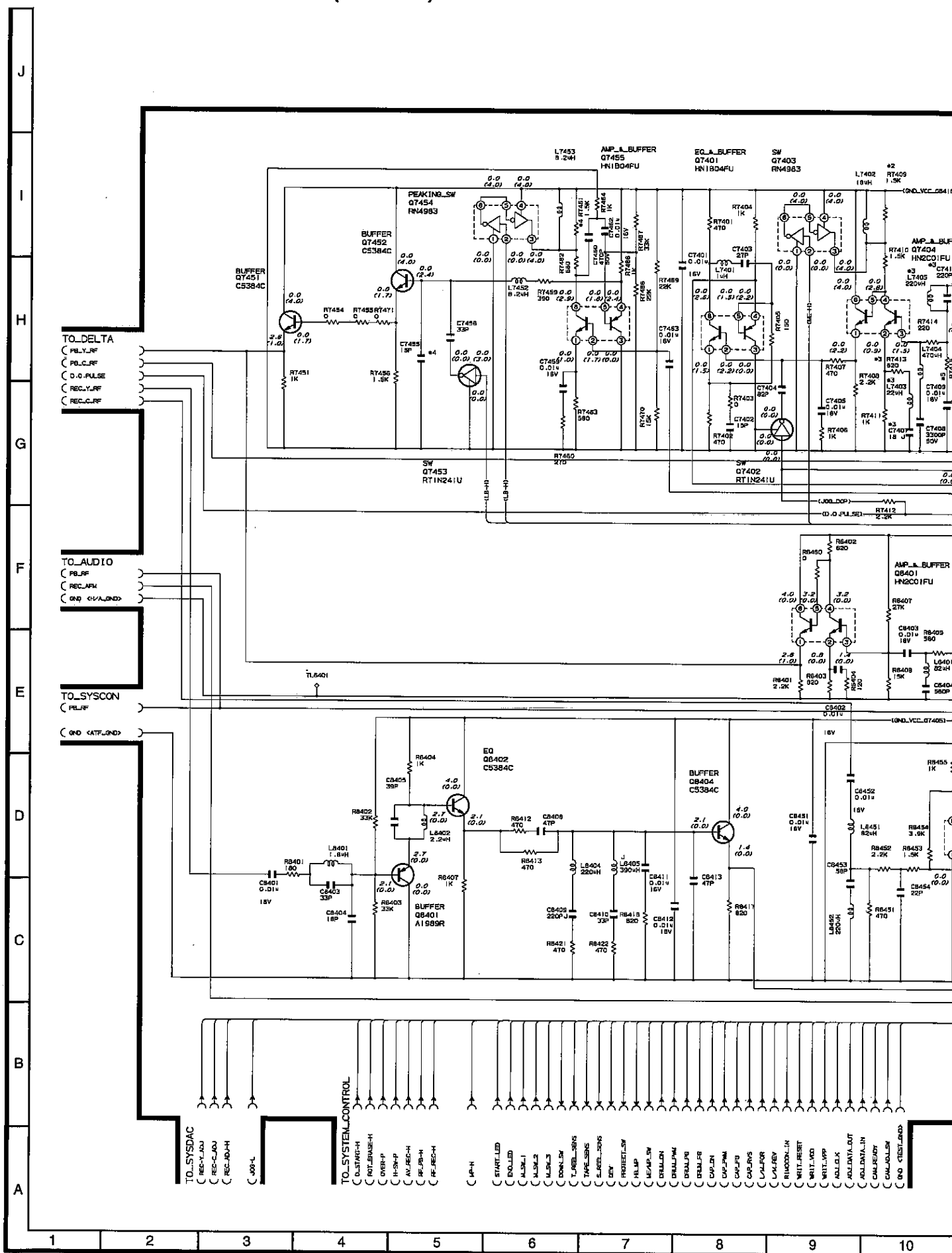


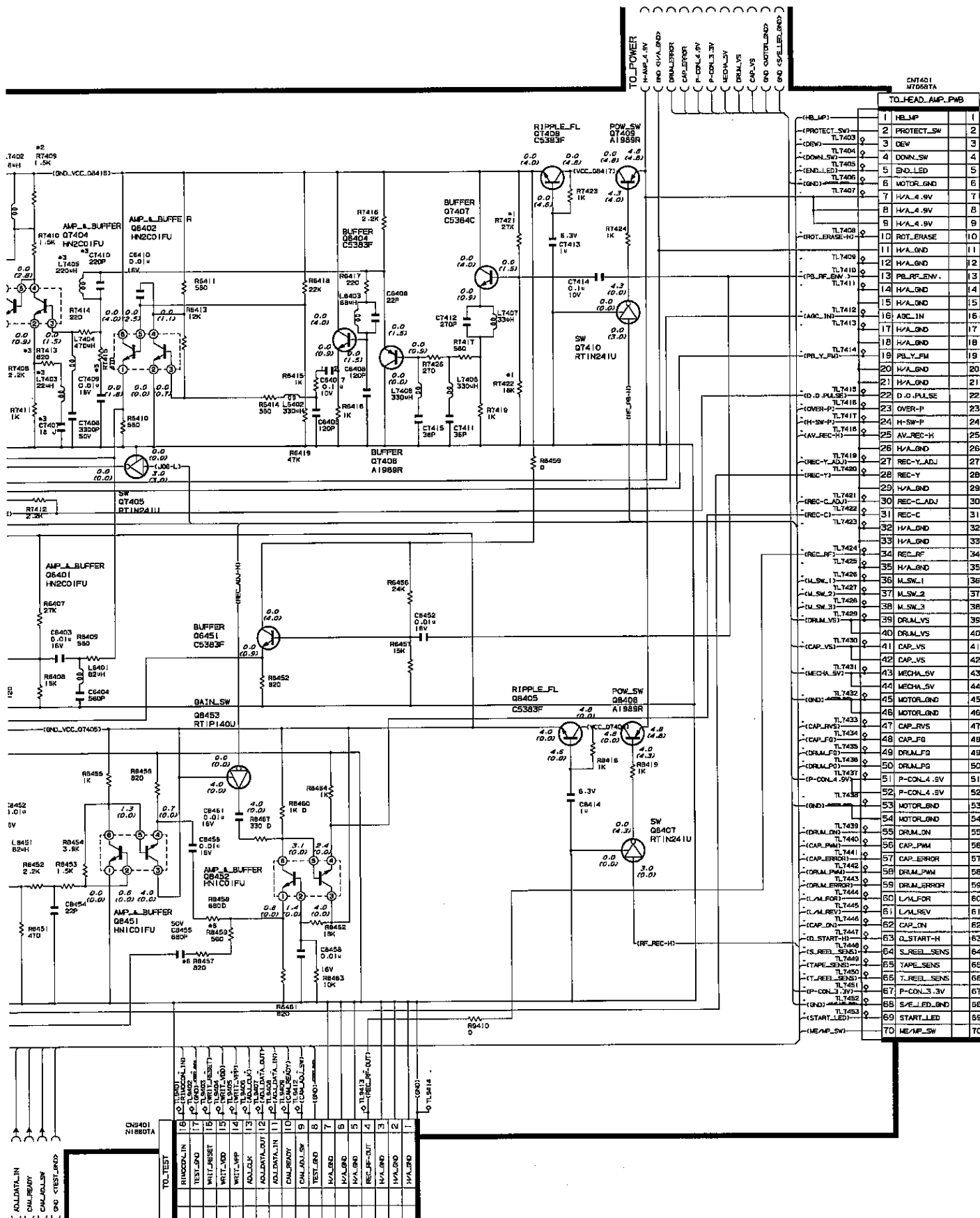
7-12. RF SCHEMATIC DIAGRAM(VL-A10)





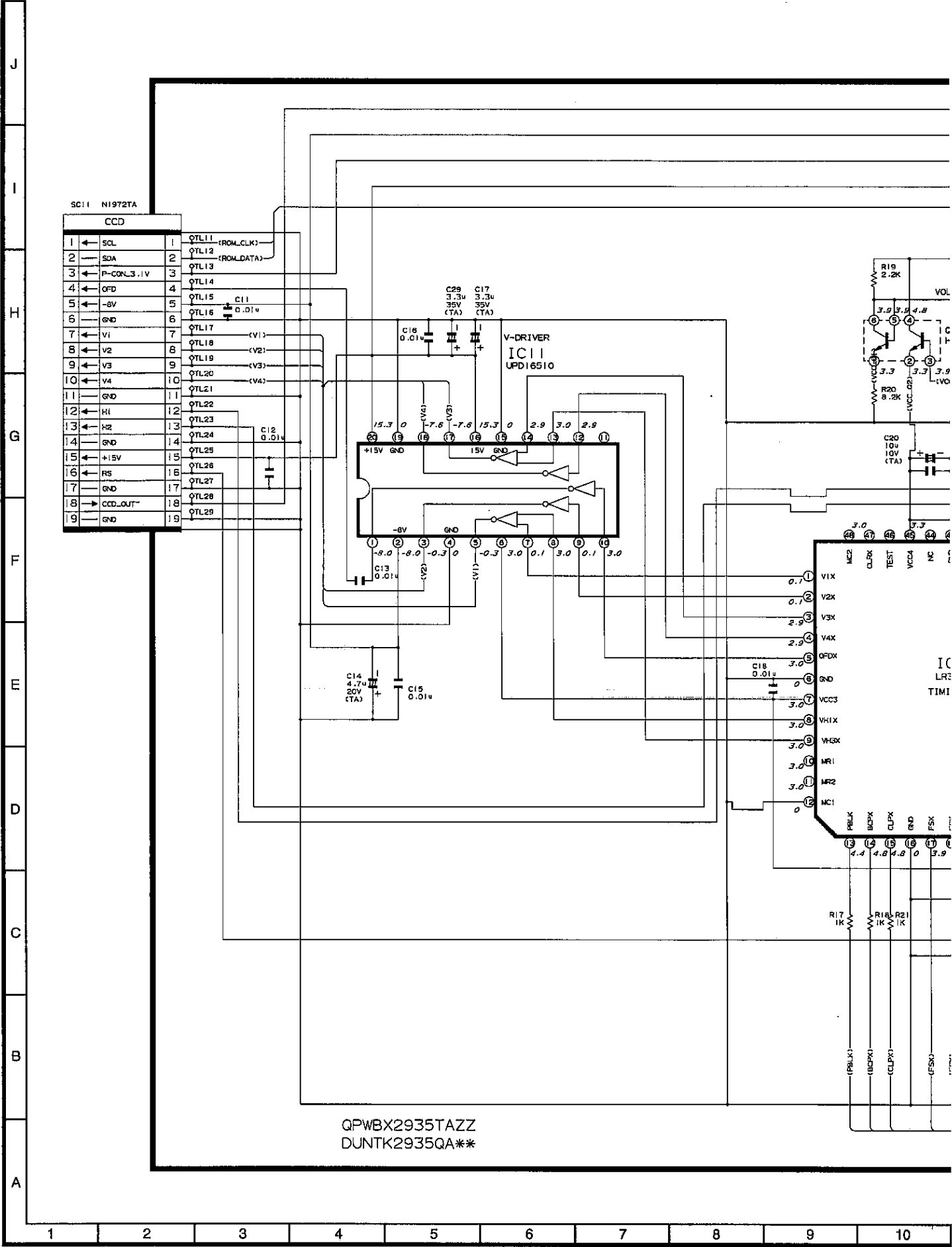
7-13. RF SCHEMATIC DIAGRAM(VL-AH30)

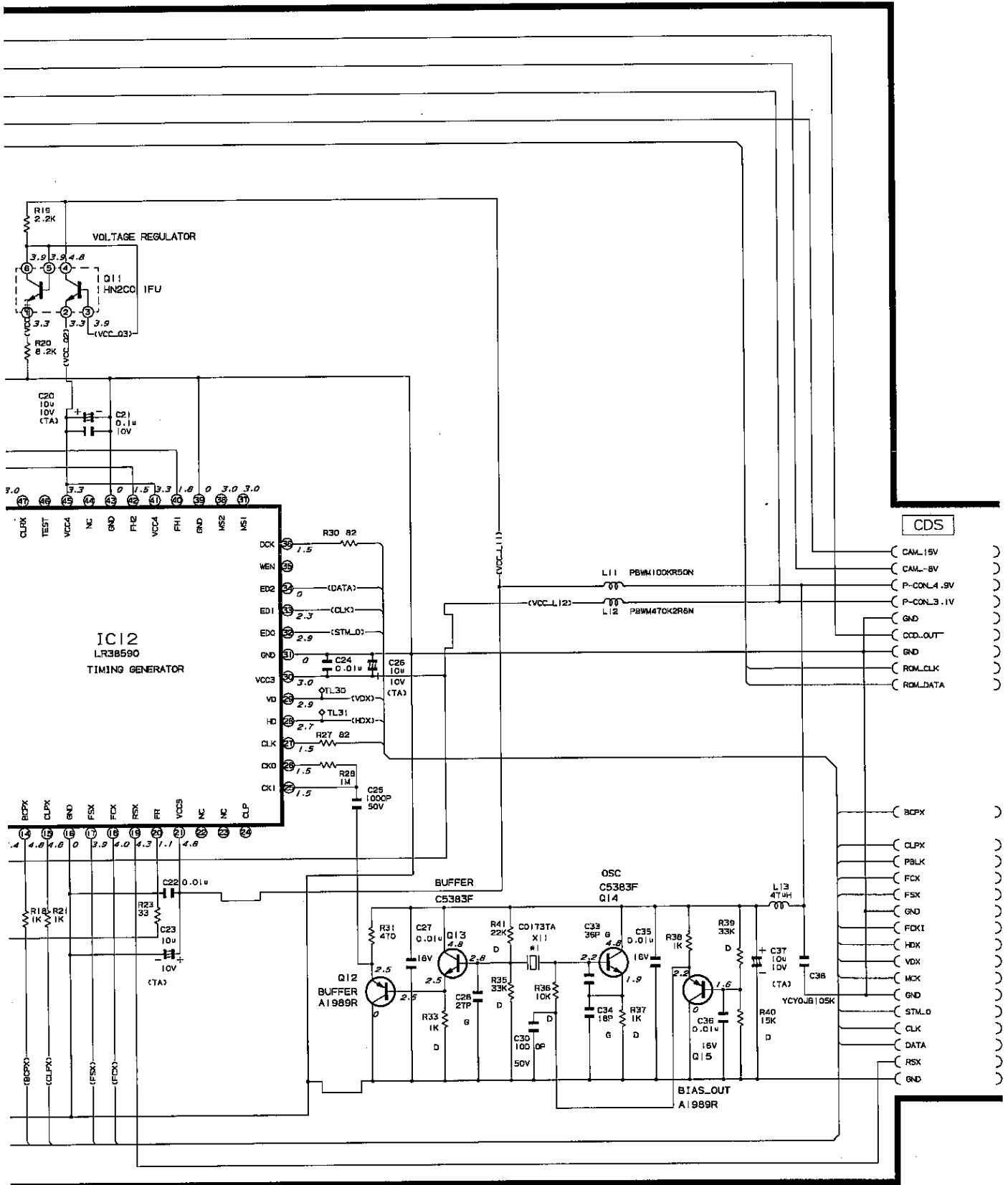




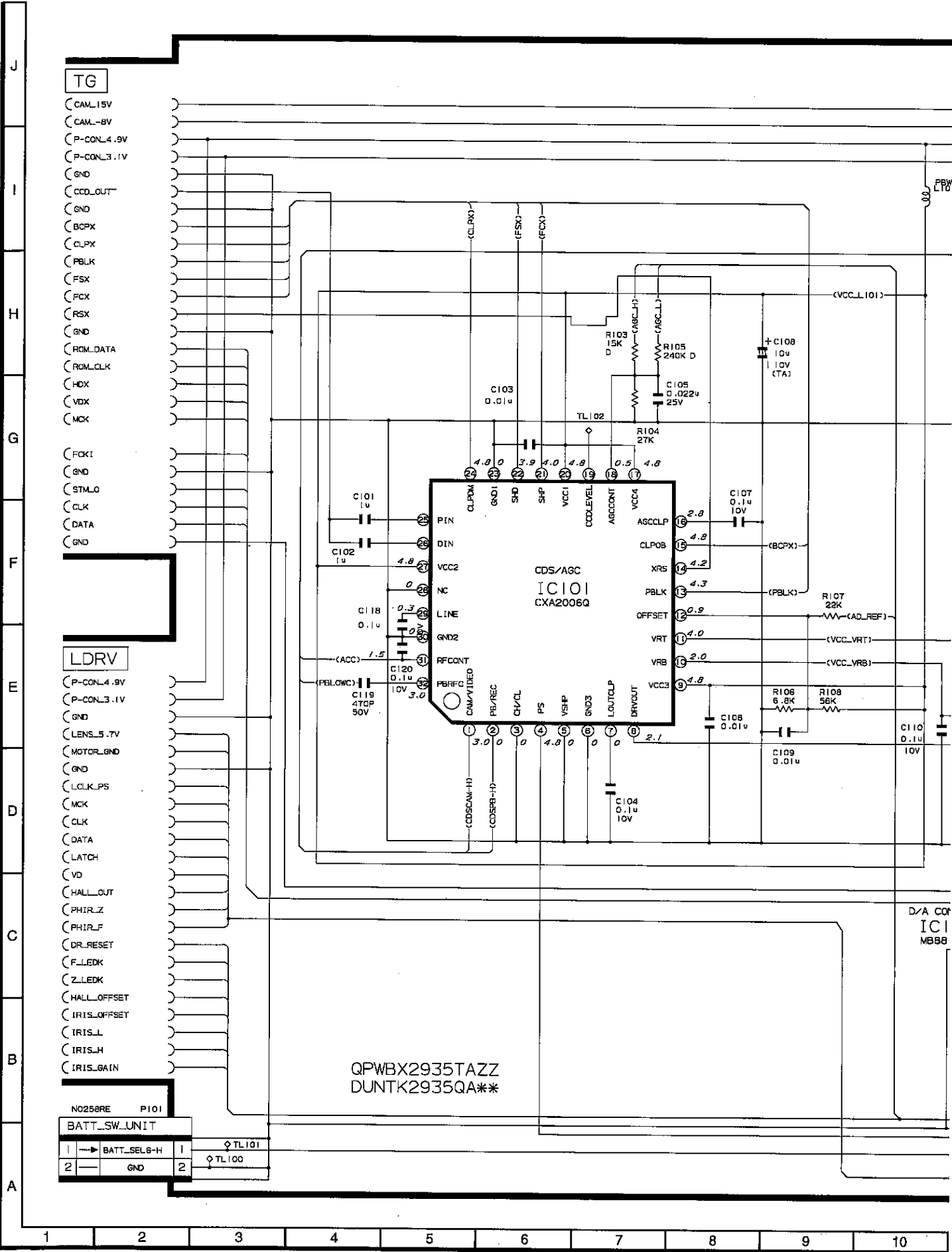
10	11	12	13	14	15	16	17	18	19
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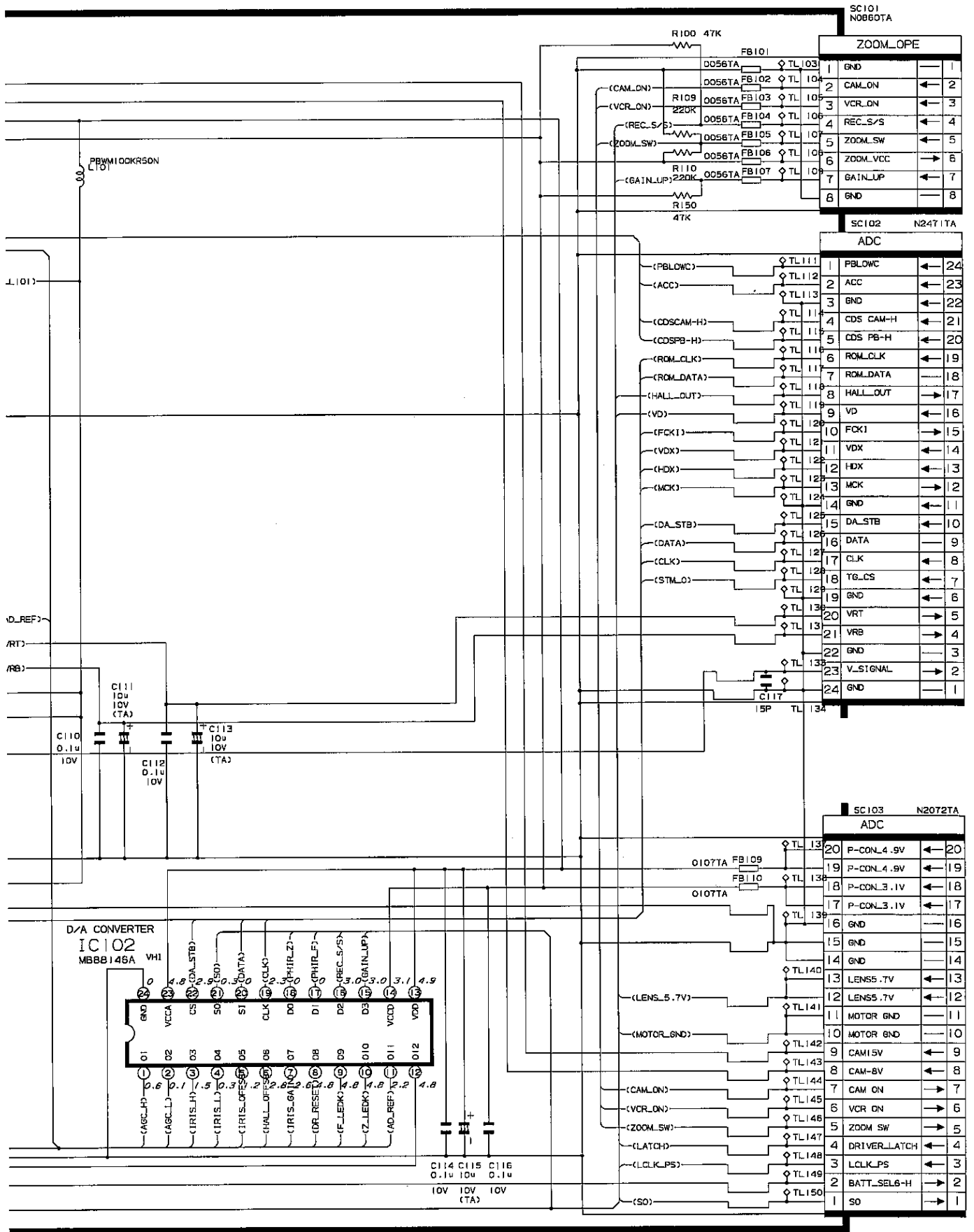
7-14. TG SCHEMATIC DIAGRAM



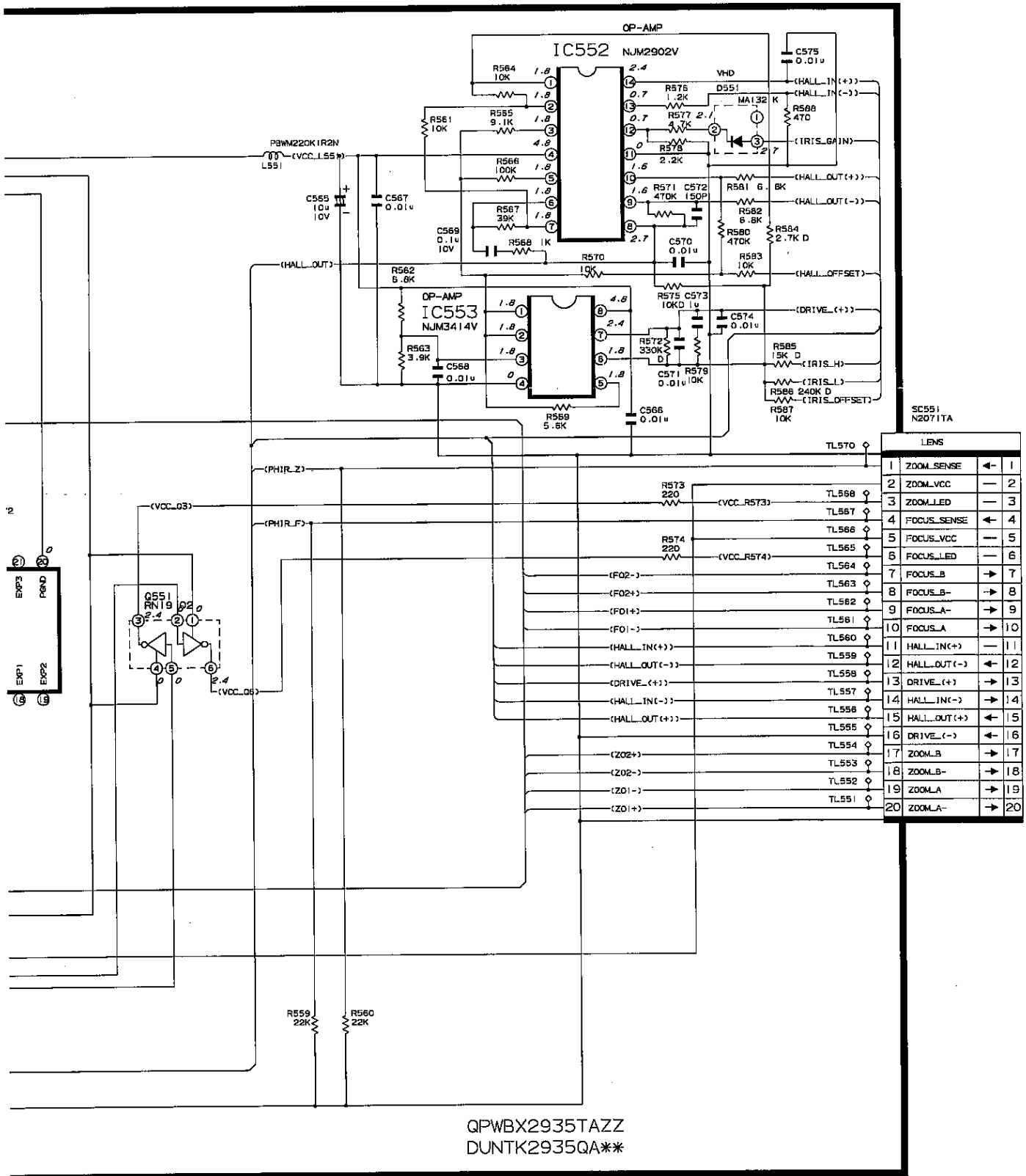


7-15. CDS SCHEMATIC DIAGRAM



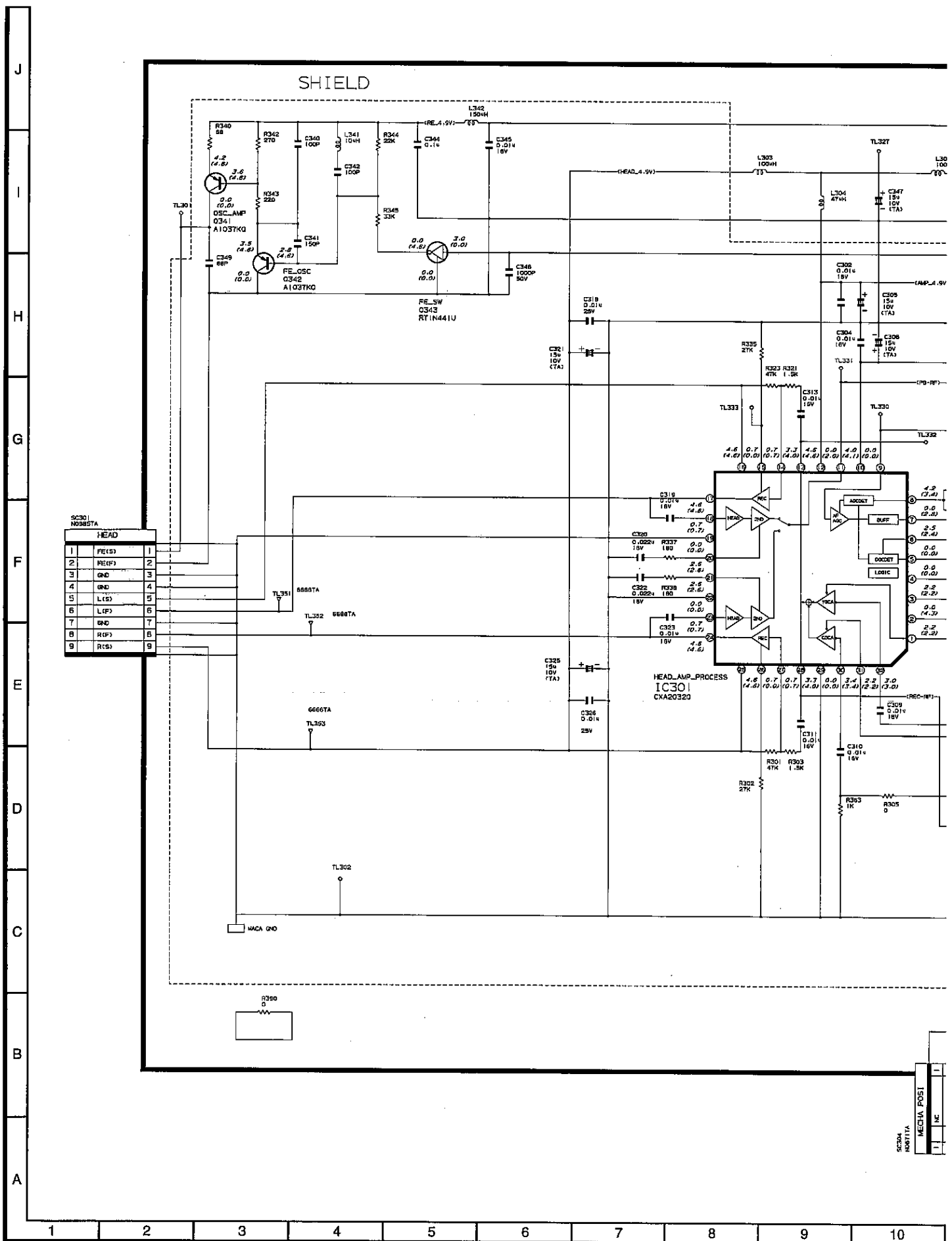


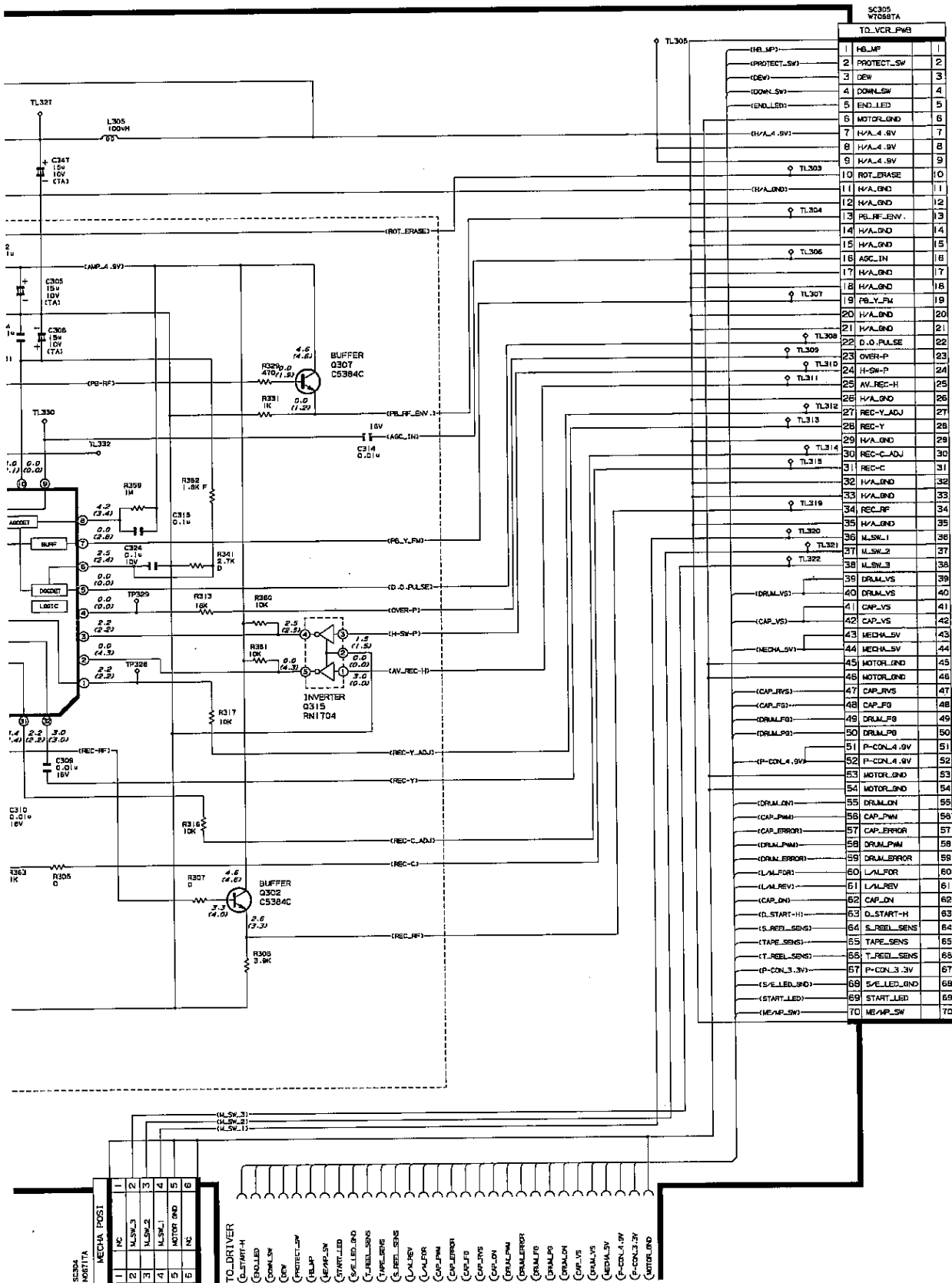




10	11	12	13	14	15	16	17	18	19
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7-17. HEAD AMP SCHEMATIC DIAGRAM



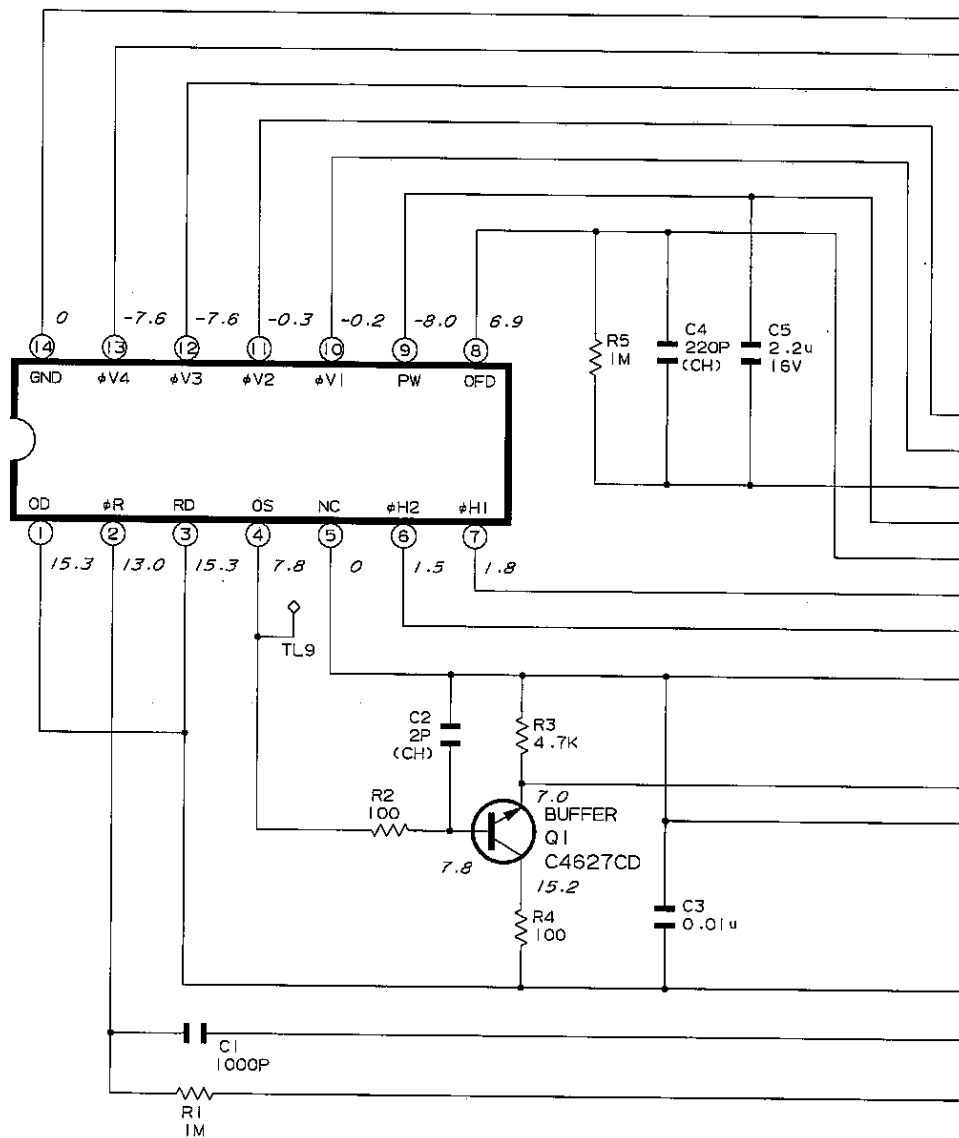


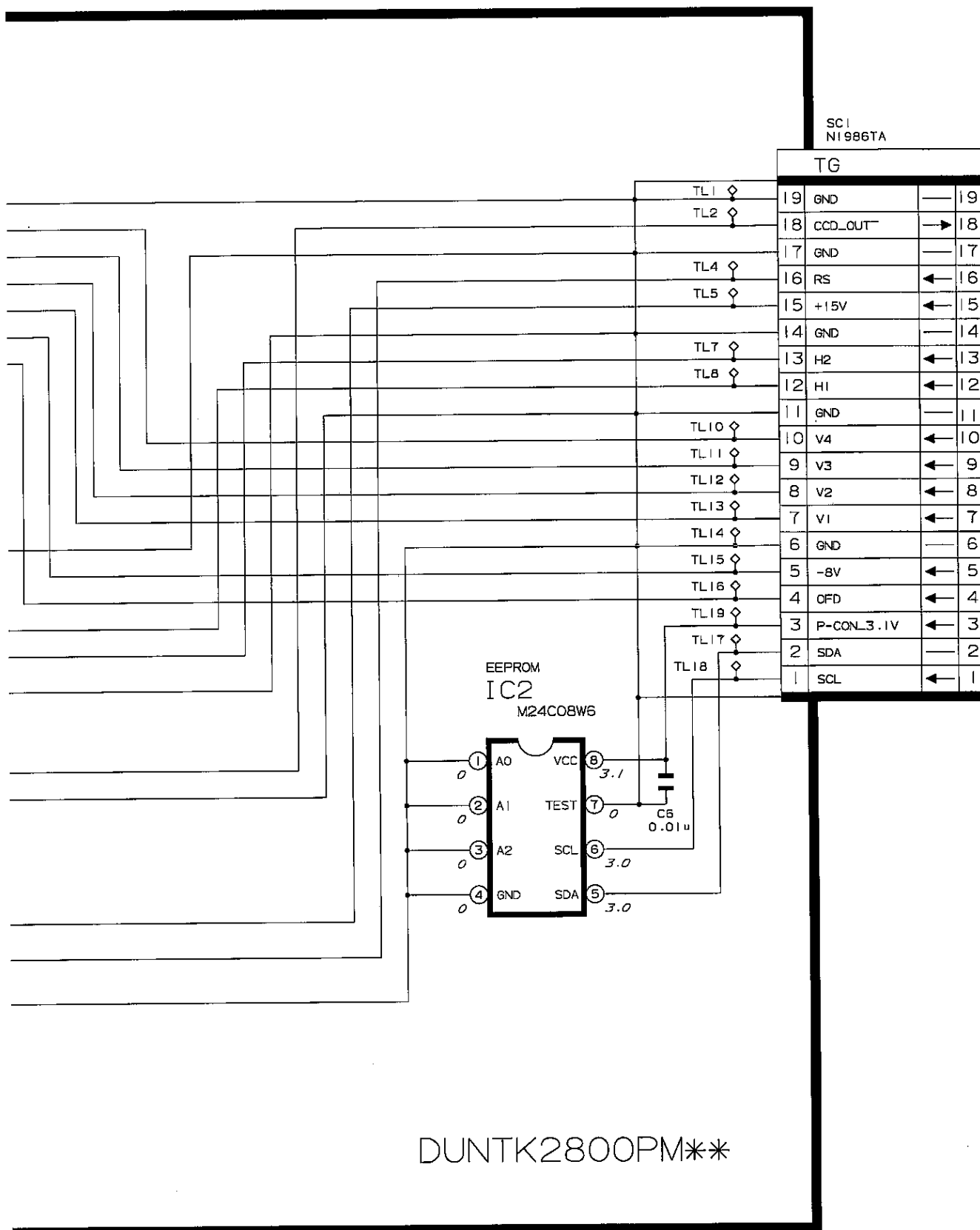




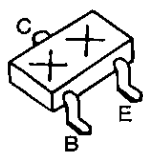
7-19. CCD SCHEMATIC DIAGRAM

IC1*1
LZ2423H5
CCD_IMAGER
(TOP_VIEW)





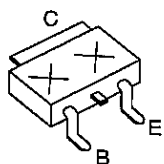
8. SEMICONDUCTOR LEAD IDENTIFICATION



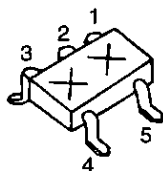
2SA1577R
2SA1774F
2SB12956
2SC4617B
2SC4738Y
2SD2216
FMMT717
ZH431F01
2SC3931C
CPH3106
2SD1979S
2SC4116Y
2PC4617R

2SA1362GR
2SA1989R
2SC5383F
2SC5384C
RT1P141U
RT1N441U
DTD123TK
2SC4627CD
2SB1197KQ
2SD1819A
DTC144EE
UN9111
UN9214

DTA144EE
CPH3209
CPH3109
RT1P241U
RT1P441U
RT1N241U
RT1N141N
RT1P140U
RT1N140U



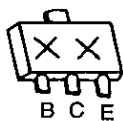
2SD1805
2SB1205S



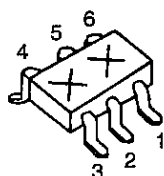
FMG12
UMG2
UMG5N
XP1B301
XP1213
S81230SG
XPIC301
PST597KN

RN5RL43
TC7SL04U
NJM2107F
TA75S01F
TC7S08U
TA7SL02U
NJU7012F
2SA1873Y

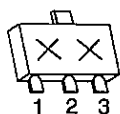
2SC4944Y
RN2702
RN2703
RN2704
RN1702
RN1703
RN1704



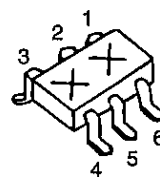
2SB1121T
2SB1302S



IMX9
XN4604
IMD16A
XN4404



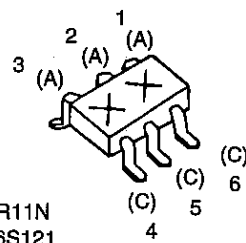
RH5RE58A
S81330HG



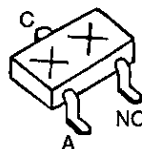
RN1902
RN1903
RN1904
CPH6303
HN1B04FU
HN1A01FU
HN2A01FU
HN1C01FU
HN2C01FU
RN4982
RN4983

RN4984
RN4990
RN2902
RN2903
RN2904
UMB2
UMD12N
UMT2
UMX2
UPUMZ1
XP6501

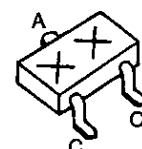
XP4311
XP4316
XP4113
HN1B01FU
XP4501
UMZ1
XP4601
UMD6
UMD3
UPUMX1



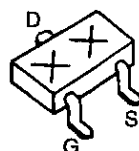
UMR11N
MA6S121



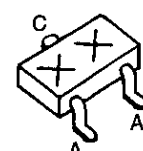
DA121



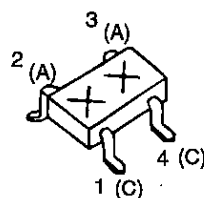
MA704WA



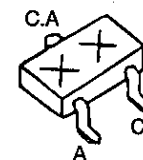
SI2301DS



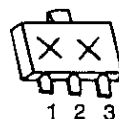
DAN222



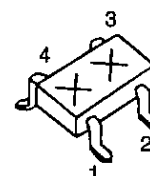
DA227



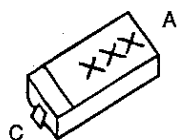
DA221
MA147
MA133



NJM79L09

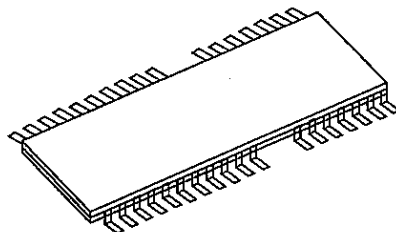


PST592KM

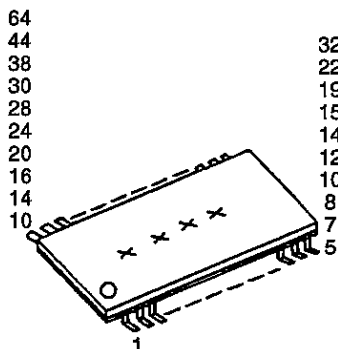


MA729
MA2S111
F1J2H
HVU350B
HVU359TR
F02J9

EX0161TA
EX0210TA
EX0870CE
HVU362
KV1812K
FS1J2E



IX0616TA

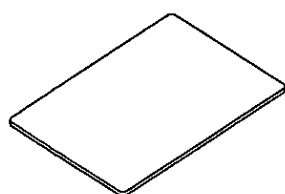
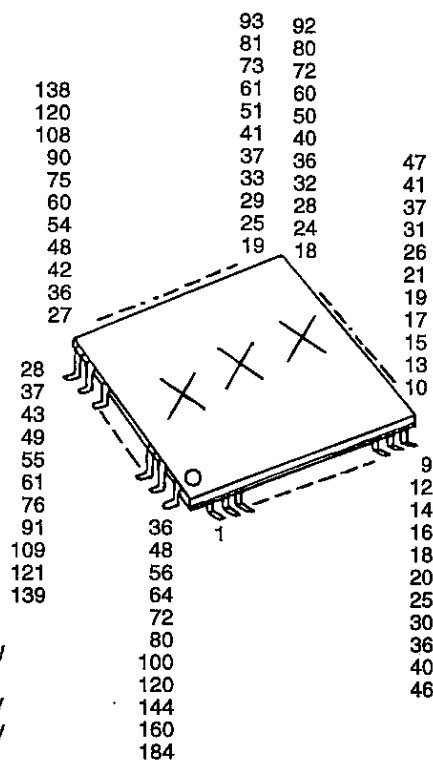


CXA2096N
MS548331
MM1323XV
BU4051FV
LA7473V
PCMB3006T
M40C558V
T7A164S
UPD16510

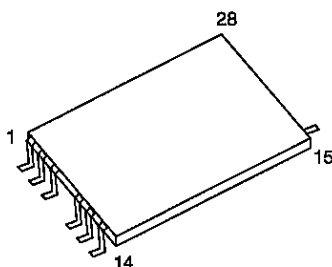
NJM2904V
IX0468TA
IX0613TA
NJM2902V
NJM3414V
MB8346BV
BU2090FS
IX0768TA

IX0755TA
IX0756TA
IX0775TA
ADS933Y
IX0474TA
IX0422TA
IX0469TA
BH7268KV
IX0605TA
IX0606TA
IX0607TA
MB3785V
FA3675F

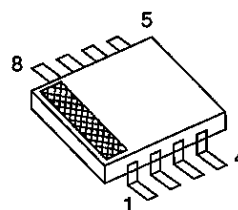
LB11952W
IX0759TA
BA7761KV
BH7273KV
LR38610
BH7272KV
MB88344F
UPC2391G
LB1990W
MM1449XQ
MB86611
C111306F



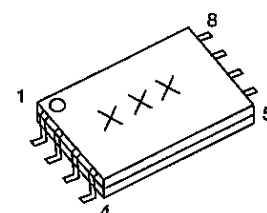
IX0494TA



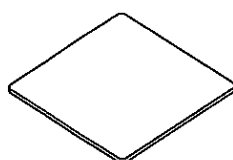
IX0560TA



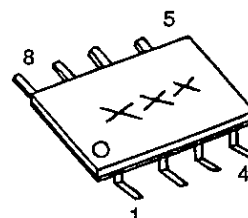
TK15440M



S84235F
MM1116FS
FTS1001



IX0604TA
IX0629TA
IX0630TA
IX0625TA
IX0608TA
IX0620TA
M5412450

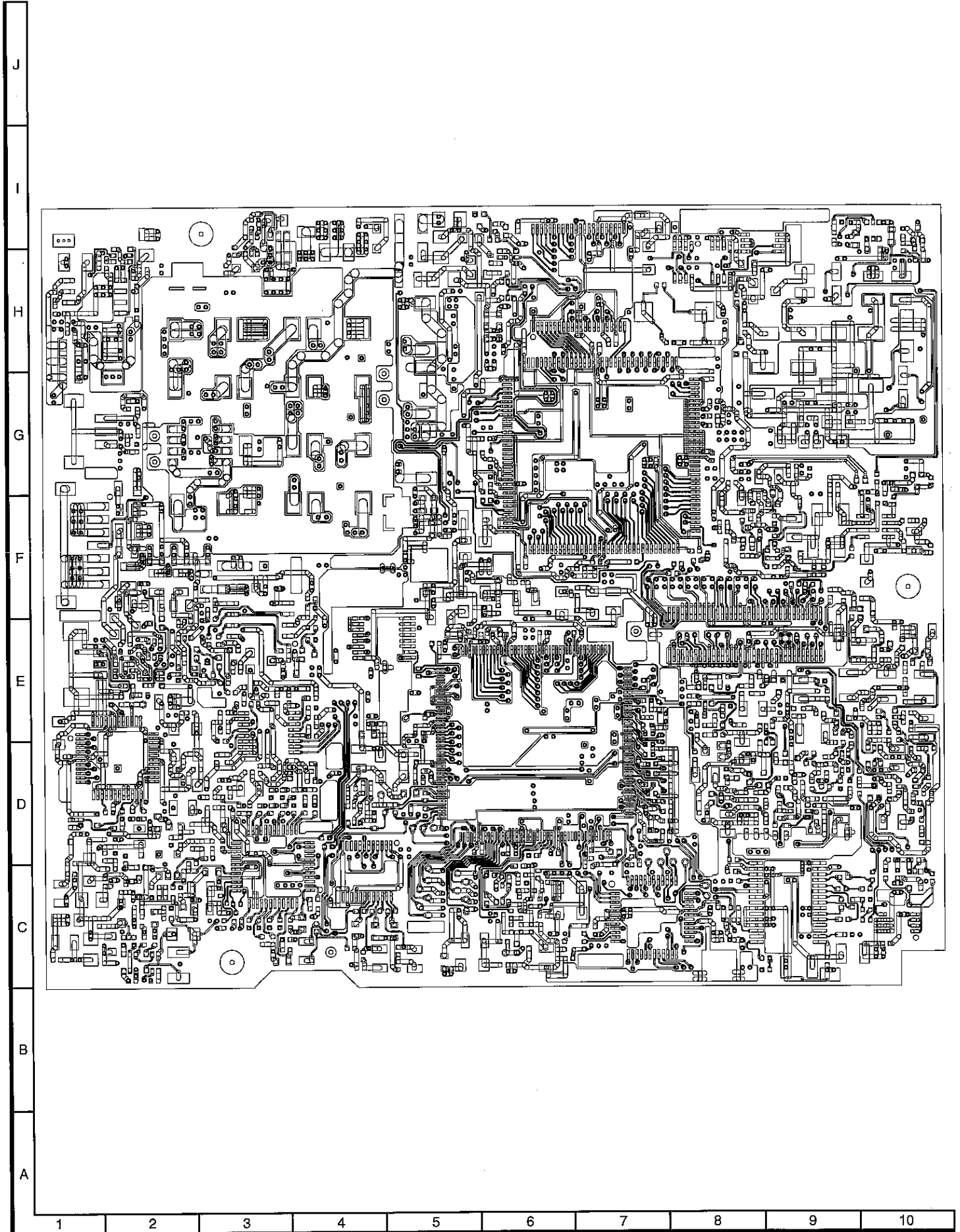


S84235F
S24C02A
TA75W558
MM1332G
TC7W14U
TC7W74U

TC7W74U
TC7W08U
TC4W53U
24LC8BIN
TC7WH74U
TC7W66U

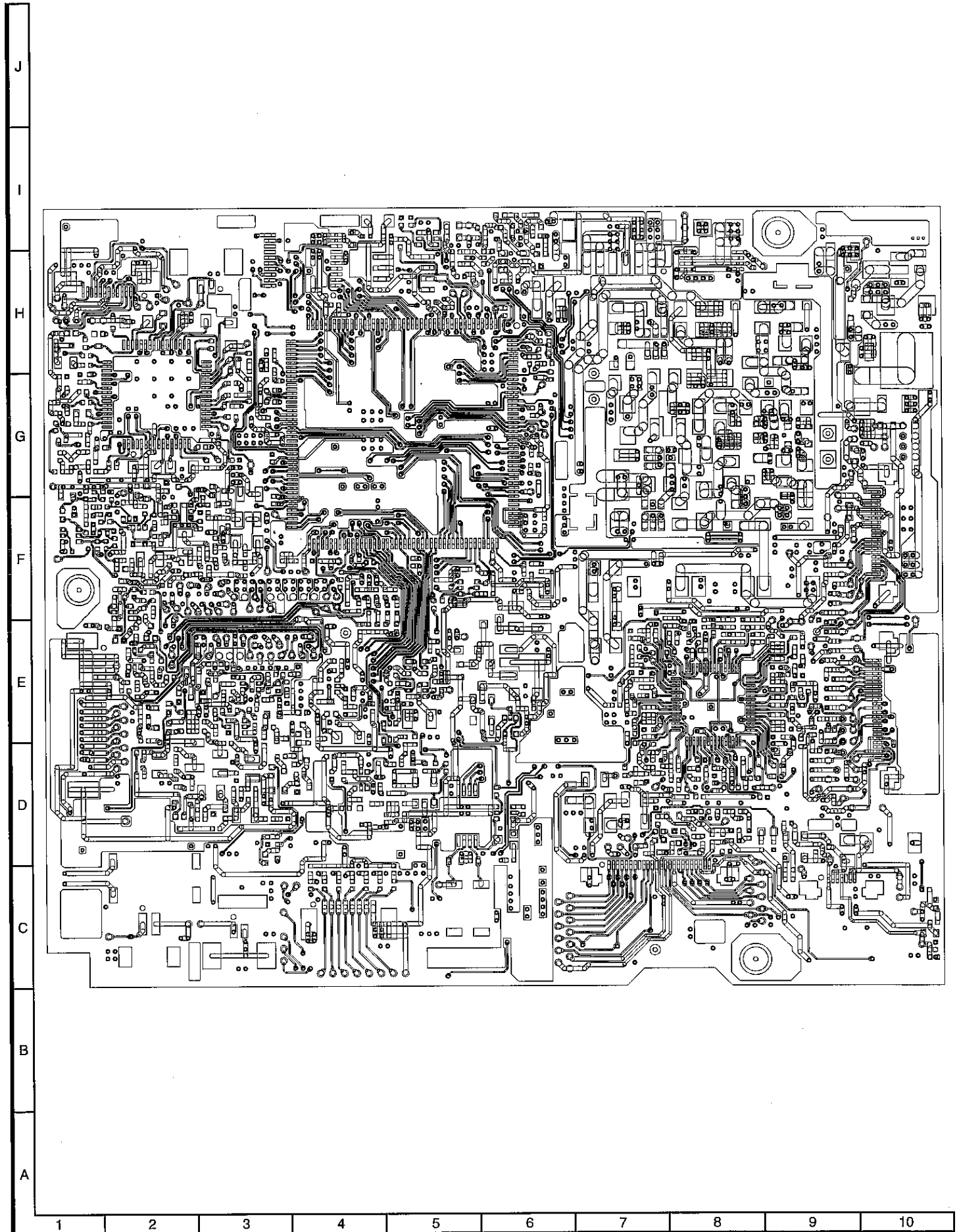


VCR PWB Wiring Side SIDE A

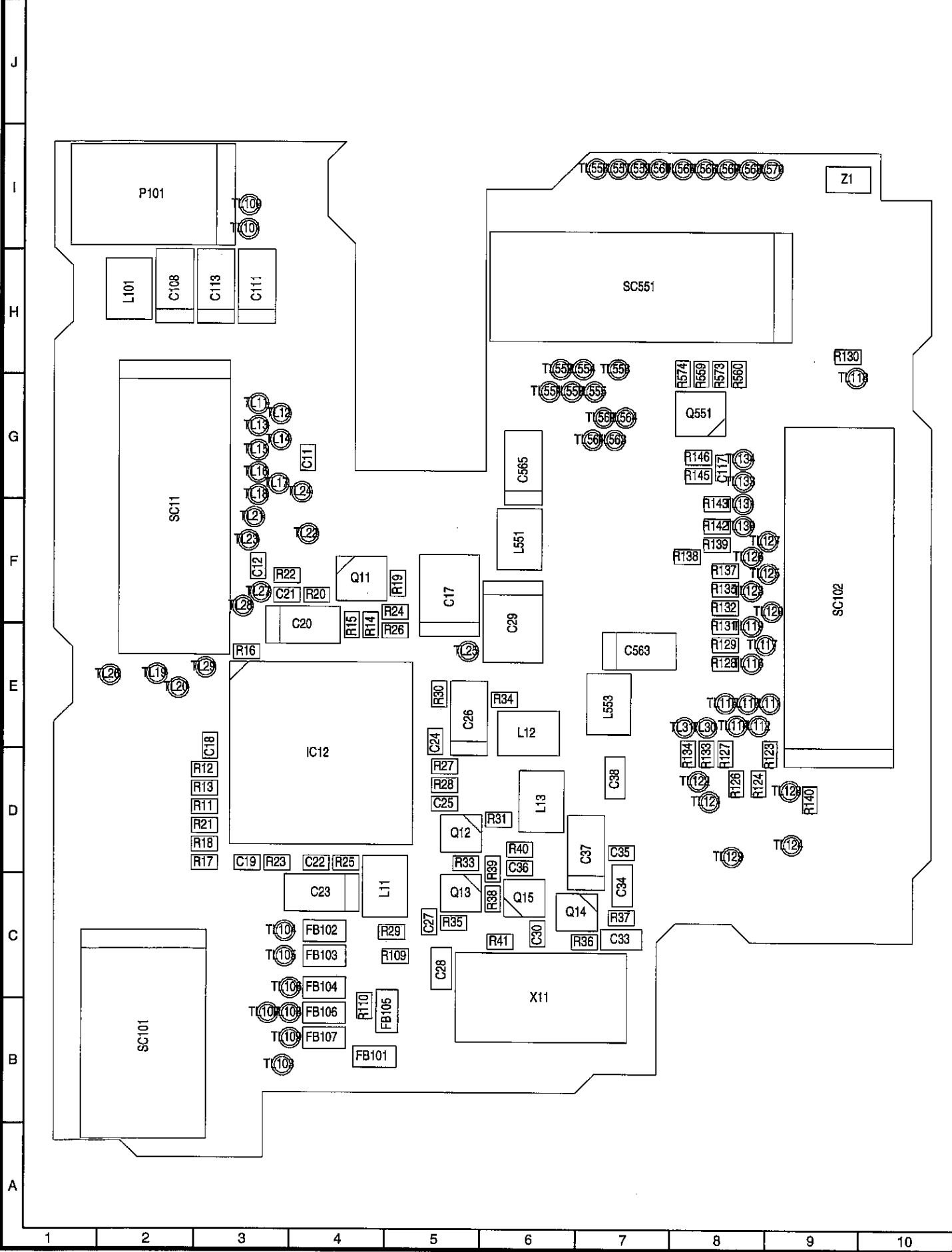




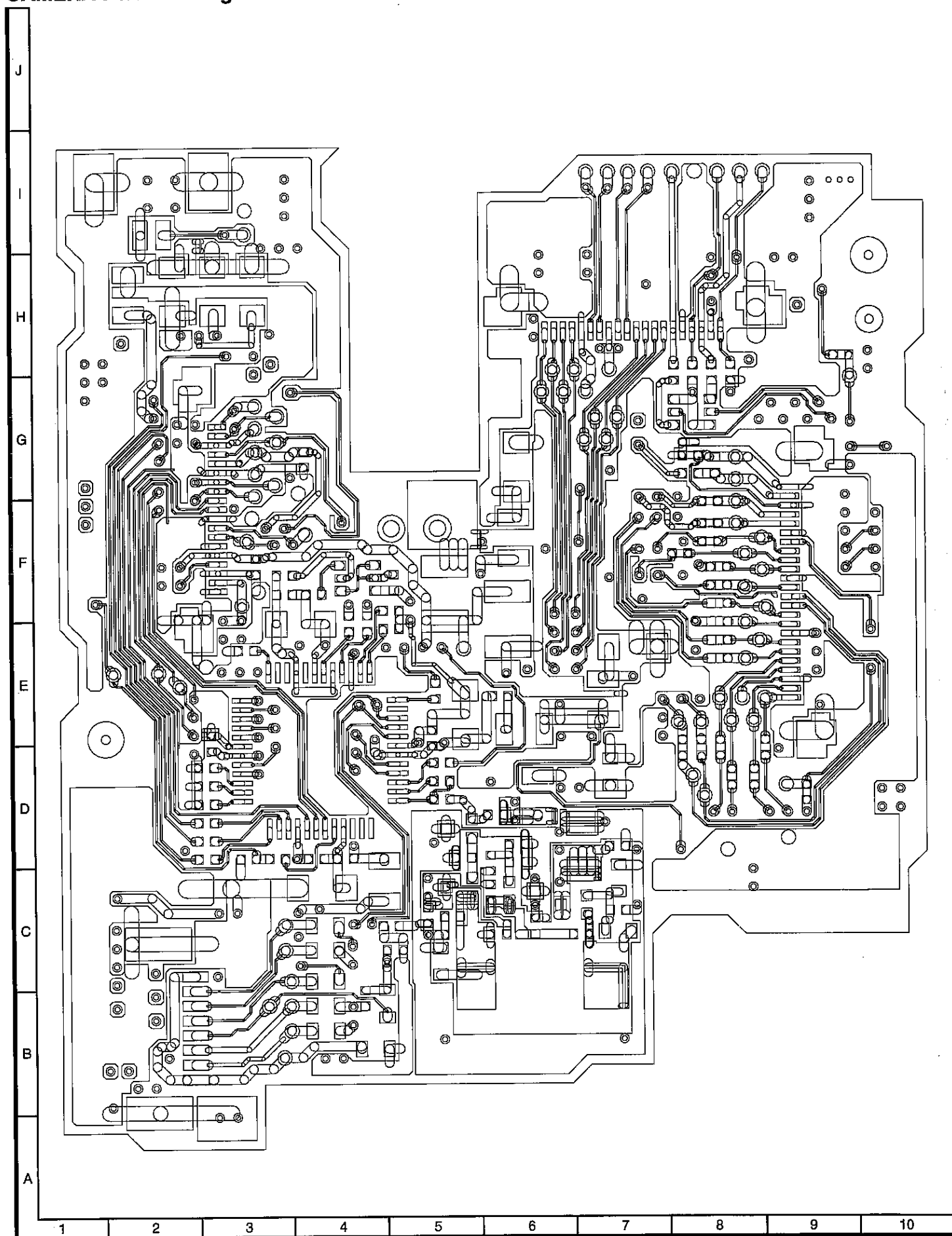
VCR PWB Wiring Side SIDE B



CAMERA PWB Component Side SIDE A

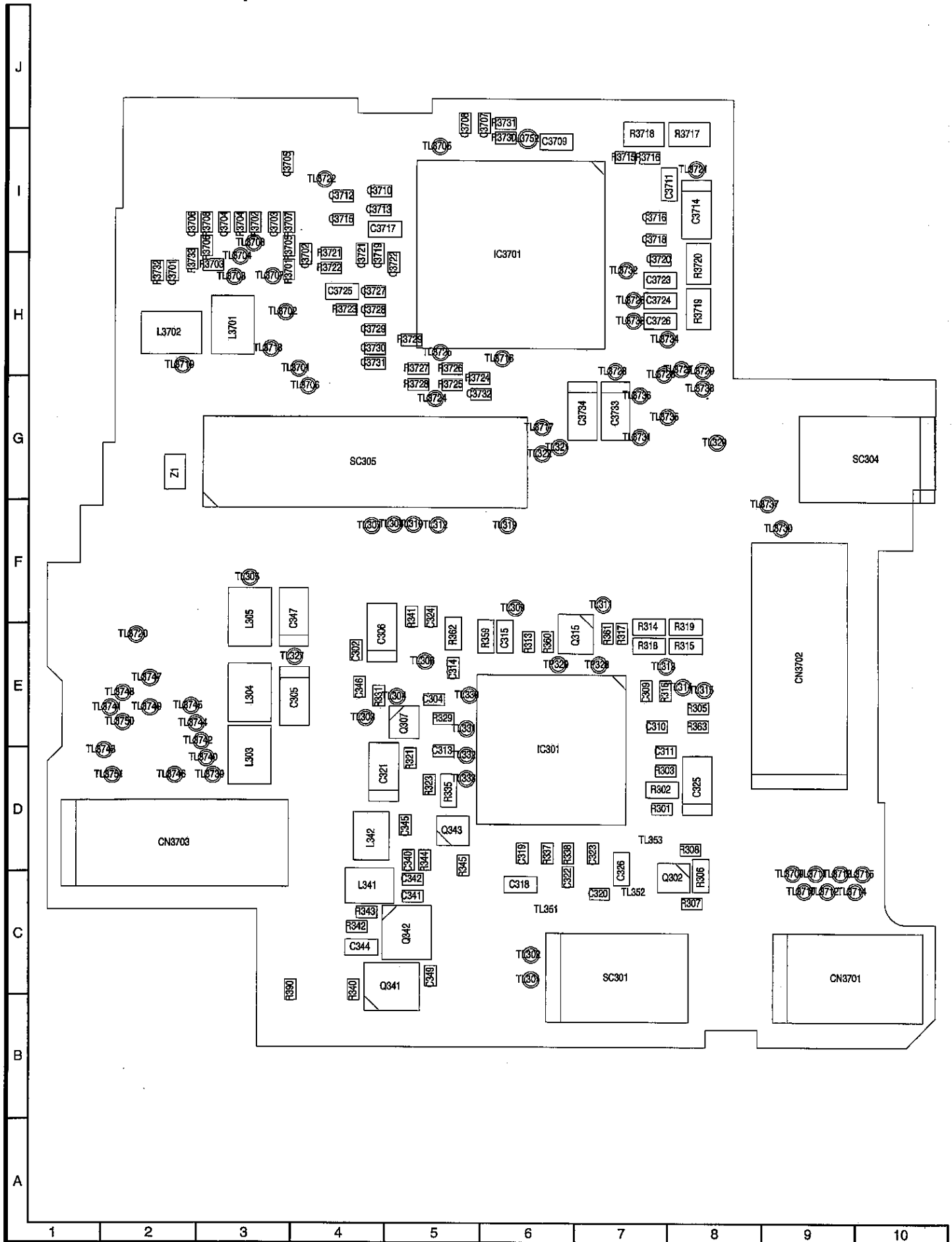


CAMERA PWB Wiring Side SIDE A

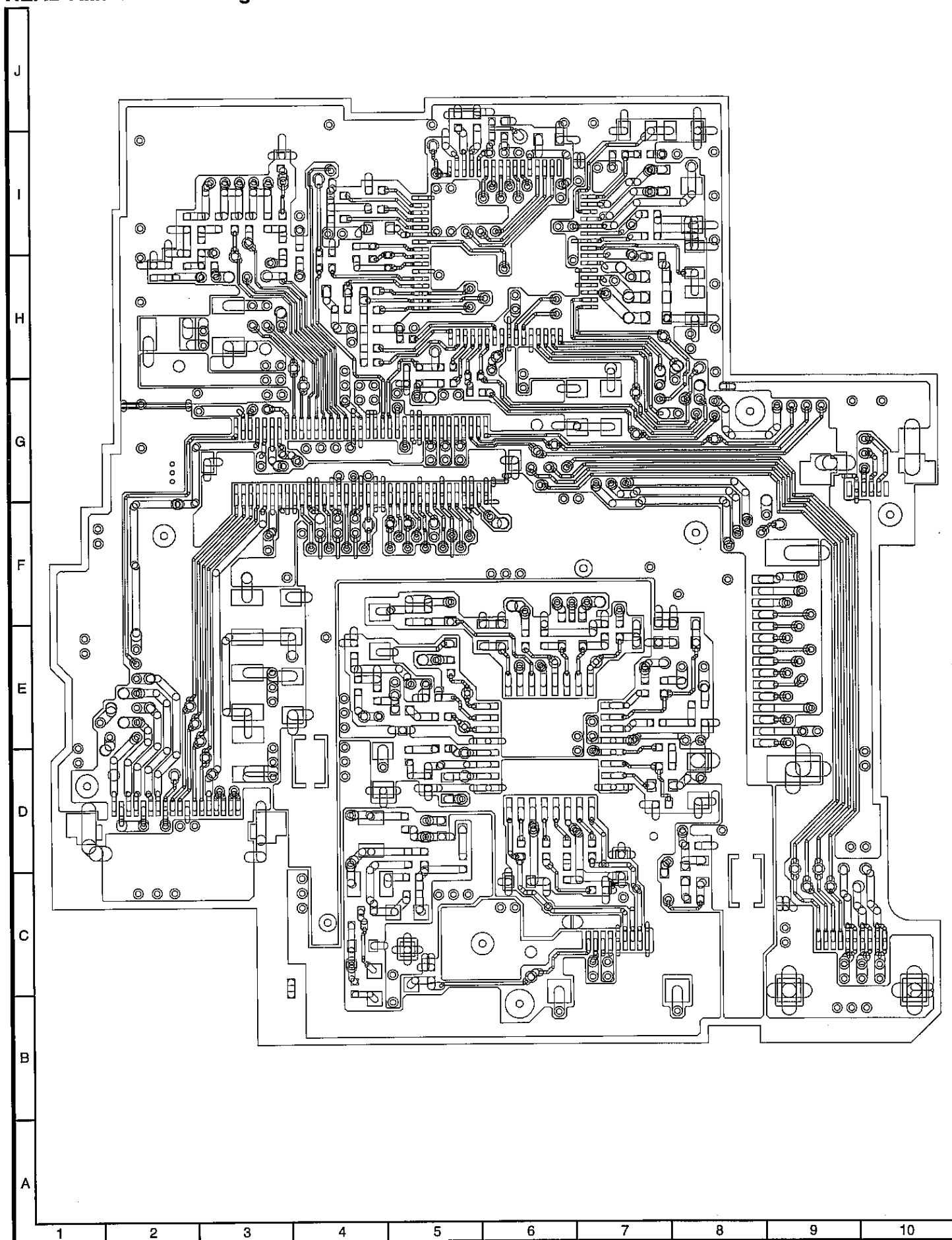




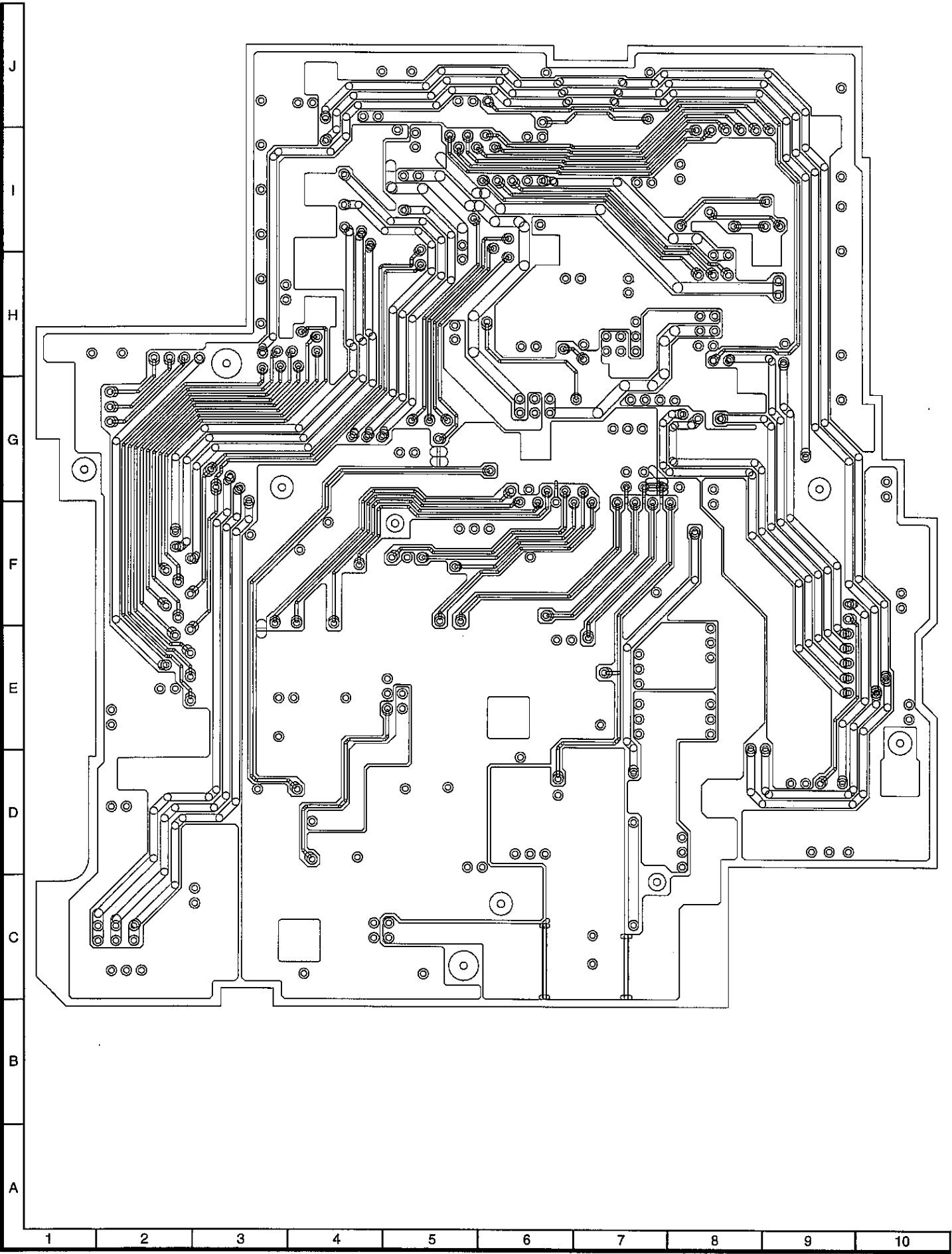
HEAD AMP PWB Component Side SIDE A



HEAD AMP PWB Wiring Side SIDE A



HEAD AMP PWB Wiring Side SIDE B



10. REPLACEMENT PARTS LIST/ EXPLODED VIEWS

ELECTRICAL PARTS LIST

Parts marked with "△" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

"HOW TO ORDER REPLACEMENT PARTS"

★MARK : SPARE PARTS-DELIVERY SECTION:ALL JAPAN

To have your order filled promptly and correctly, please furnish the following informations.

- | | |
|-----------------|----------------|
| 1. MODEL NUMBER | 2. REF. NO. |
| 3. PART NO. | 4. DESCRIPTION |
| 5. PRICE CODE | |

△ MARK: SAFETY RELATED PARTS

PWB ASSEMBLY IS NOT REPLACEMENT ITEM

Ref. No.	Part No.	★	Description	Code
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PRINTED WIRING BOARD ASSEMBLIES (NOT REPLACEMENT ITEM)

DUNTK2950QA10	VCR Unit(VL-A10S)	—
DUNTK2950QA11	VCR Unit (VL-A10E/EW/EX)	—
DUNTK2950QA12	VCR Unit(VL-AH30S)	—
DUNTK2950QA13	VCR Unit(VL-AH30E/EX)	—
DUNTK2950QA15	VCR Unit(VL-A10H)	—
DUNTK2950QA16	VCR Unit(VL-AH30H)	—
DUNTK2935QA10	CAMERA Unit (VL-A10S/H/AH30S/H)	—
DUNTK2935QA11	CAMERA Unit (VL-A10E/EW/EX/AH30E/EX)	—
DUNTK2936QA01	HEAD AMP Unit	—
DUNTK2800PM10	CCD Unit	—

TUNER AND ASSEMBLY UNITS

RUNTK0353TAZZ	VCR Operation Unit	AS
RUNTK0354TAZZ	Lithium Battery Unit	AF
RUNTK0355TAZZ	AV Jack Unit	AT
RUNTK0356TAZZ	6-cell Detection Unit	AG

DUNTK2950QA10(VL-A10S)
DUNTK2950QA11(VL-A10E/EW/EX)
DUNTK2950QA12(VL-AH30S)
DUNTK2950QA13(VL-AH30E/EX)
DUNTK2950QA15(VL-A10H)
DUNTK2950QA16(VL-AH30H)
VCR Unit

INTEGRATED CIRCUITS

IC151	VHICXD2310A-1	CXD2310A, A/D Converter	AV
IC401	RH-IX0788TAZZ	IX0788TA, Integrated DSP	BB
IC601	VHILA7458W/-1	LA7458W, Sig Process	AT
IC701	VHIS81330HG-1	S81330HG, 3V REG	AF
IC702	VHIRN5VD25A-1	RN5VD25A, 2.5V DET	AE
IC704	VHIRS5C313/-1	RS5C313, Clock	AL
IC705	VHIM24C08W6-1	M24C08W6, E ² PROM	AH
IC706	RH-IX0755TAZZ	IX0755TA	AZ
IC707	RH-IX0768TAZZ	IX0768TA, OSD.IC	AP
IC708	VHITA75S01F-1	TA75S01F, Amp	AD
IC710	VHITC4W53U/-1	TC4W53U	AF
IC711	VHITC4W53U/-1	TC4W53U	AF

Ref. No.	Part No.	★	Description	Code
IC712	VHITC7W74U/-1		TC7W74U	AD
IC800	VHIMM1323XV-1		MM1323XV, LCD Interface	AN
IC900	VHIMB3881/-1		MB3881, Power Control IC	AT
IC902	VHIBU4051FV-1		BU4051FV, Multiplexer	AF
IC903	VHINJM2904M-1		NJM2904M, 3.1V/2.5V Error Amp	AE
IC904	VHITA75S01F-1		TA75S01F, Amp	AD
IC1451	VHITK15440M-1		TK15440M, Driver	AF
IC2701	VHIMB88344F-1		MB88344F, D/A Converter	AV
IC2901	VHIMM1332GF-1		MM1332GF, Charge Control	AH
IC2902	VHINJU7012F-1		NJU7012F, Over Current Detector	AE
IC3800	VHINJM2107F-1		NJM2107F, AFC LPF	AE
IC3801	VHILZ9GH16/-1		LZ9GH16, LCD Controller	AP

TRANSISTORS

Q403	VS2SA1873Y/-1	2SA1873Y	AC
Q406	VS2SA1989R/-1	2SA1989R	AB
Q407	VS2SA1989R/-1	2SA1989R	AB
Q409	VSHN1B04FU/-1	HN1B04FU	AC
Q410	VS2SA1989R/-1	2SA1989R	AB
Q601	VS2SA1362GR-1	2SA1362GR	AC
Q602	VSRT1N441U/-1	RT1N441U	AB
Q603	VS2SC5383F/-1	2SC5383F	AB
Q704	VSHN1B04FU/-1	HN1B04FU	AC
Q705	VSHN2C01FU/-1	HN2C01FU	AC
Q707	VSHN1C01FU/-1	HN1C01FU	AC
Q708	VSRN2904///-1	RN2904	AC
Q709	VSHN1C01FU/-1	HN1C01FU	AC
Q901	VS2SA2010/-1	2SA2010	AD
Q903	VS2SA1989R/-1	2SA1989R	AB
Q904	VS2SA1362GR-1	2SA1362GR	AC
Q905	VS2SA1989R/-1	2SA1989R	AB
Q906	VS2SA2010/-1	2SA2010	AD
Q908	VS2SA1362GR-1	2SA1362GR	AC
Q911	VSCPH3215/-1	CPH3215	AD
Q912	VS2SA1989R/-1	2SA1989R	AB
Q913	VSRT1N441U/-1	RT1N441U	AB
Q914	VSRT1N441U/-1	RT1N441U	AB
Q916	VSRN4983///-1	RN4983	AC
Q917	VSRN4983///-1	RN4983	AC
Q918	VSRN4983///-1	RN4983	AC
Q919	VSCPH6702/-1	CPH6702	AD
Q921	VSCPH6702/-1	CPH6702	AD
Q922	VSCPH6702/-1	CPH6702	AD
Q925	VS2SA2010/-1	2SA2010	AD
Q926	VS2SC5383F/-1	2SC5383F	AB
Q928	VS2SB1121T/-1	2SB1121T	AC
Q932	VSRN1902///-1	RN1902	AC
Q933	VSRN1902///-1	RN1902	AC
Q934	VS2SC3440/-1	2SC3440	AC
Q935	VSRN2903///-1	RN2903	AC
Q936	VS2SA1362GR-1	2SA1362GR	AC
Q937	VS2SC5383F/-1	2SC5383F	AB
Q938	VS2SA1362GR-1	2SA1362GR	AC
Q939	VS2SC5383F/-1	2SC5383F	AB
Q940	VSRN4983///-1	RN4983	AC
Q941	VS2SC5383F/-1	2SC5383F	AB
Q1401	VS2SA1989R/-1	2SA1989R	AB
Q1402	VS2SA1989R/-1	2SA1989R	AB
Q1403	VS2SA1989R/-1	2SA1989R	AB
Q1404	VS2SA1989R/-1	2SA1989R	AB
Q1406	VS2SC5384C/-1	2SC5384C	AB
Q1451	VSRT1N141U/-1	RT1N141U	AB
Q1800	VS3LN01S///-1	3LN01S	AC
Q1801	VSHN1B04FU/-1	HN1B04FU	AC
Q1802	VSHN1B04FU/-1	HN1B04FU	AC
Q2401	VSHN2C01FU/-1	HN2C01FU	AC
Q2402	VS2SA1873Y/-1	2SA1873Y	AC
Q2403	VS2SC4944Y/-1	2SC4944Y	AC
Q2405	VSHN1B04FU/-1	HN1B04FU	AC
Q2406	VSRT1N141U/-1	RT1N141U	AB
Q2407	VS2SA1989R/-1	2SA1989R	AB
Q2408	VS2SC5383F/-1	2SC5383F	AB
Q2901	VSCPH6303++-1	CPH6303++	AE

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
Q2903	VSFTS1001//1		FTS1001	AG	X701	RCRSC0170TAZZ		Crystal, CRSC0170TA	AG
Q2905	VS2SB1205S/-1		2SB1205S	AE	X702	RCRSC0032TAZZ		Crystal, CRSC0032TA	AG
Q2906	VSRN1902//1		RN1902	AC	COILS AND TRANSFORMER				
Q2907	VSRN1902//1		RN1902	AC	L151	VPBWM100KR50N		Peaking, 10μH	AC
Q2910	VSRN4983//1		RN4983	AC	L152	VPBWM470K2R6N		Peaking, 47μH	AC
Q2911	VS2SB1121T/-1		2SB1121T	AC	L401	VPD9M100KR86N		Peaking, 10μH	AC
Q2912	VSRT1N141U/-1		RT1N141U	AB	L402	VPD9M470K4R1N		Peaking, 47μH	AC
Q2913	VS2SA1989R/-1		2SA1989R	AB	L404	VPD9M470K4R1N		Peaking, 47μH	AC
Q2914	VSHN1B04FU/-1		HN1B04FU	AC	L405	VPD9M470K4R1N		Peaking, 47μH	AC
Q2915	VSRT1N241U/-1		RT1N241U	AB	L406	VPD9M470K4R1N		Peaking, 47μH	AC
Q3601	VSRT1N441U/-1		RT1N441U	AB	L407	VPD9M6R8J1R8N		Peaking, 6.8μH	AC
Q3602	VSRN4983//1		RN4983	AC	L601	VPCCM101K4R3N		Peaking, 100μH	AB
Q3801	VSRT1N141U/-1		RT1N141U	AB	L602	VPCCM101K2R1N		Peaking, 100μH	AC
Q6401	VSHN2C01FU/-1		HN2C01FU	AC	L603	VPCQM220K1R0N		Peaking, 22μH	AB
Q6402	VSHN2C01FU/-1		HN2C01FU	AC	L701	VPCCM4R7MR13N		Peaking, 4.7μH	AB
Q6404	VS2SC5383F/-1		2SC5383F	AB	L702	VPCCM4R7MR13N		Peaking, 4.7μH	AB
Q6451	VS2SC5383F/-1		2SC5383F	AB	L800	VPD9M100J1R7N		Peaking, 10μH	AC
Q7401	VSHN1B04FU/-1		HN1B04FU	AC	L801	VPD9M470J6R6N		Peaking, 47μH	AC
Q7402	VSRT1N241U/-1		RT1N241U	AB	L900	RCILP0344TAZZ		Coil, 4.7μH	AD
			(AH30S/H/E/EX)		L901	RCILP0343TAZZ		Coil, 10μH	AD
Q7403	VSRN4983//1		RN4983	AC	L902	RCILP0271TAZZ		Coil, 33μH	AE
			(AH30S/H/E/EX)		L903	VPCCM2R2MR09N		Peaking, 2.2μH	AC
Q7404	VSHN2C01FU/-1		HN2C01FU	AC	L904	VPCCM2R2MR09N		Peaking, 2.2μH	AC
Q7405	VSRT1N241U/-1		RT1N241U	AB	L905	RCILP0344TAZZ		Coil, 4.7μH	AD
			(AH30S/H/E/EX)		L906	RCILP0271TAZZ		Coil, 33μH	AE
Q7406	VS2SA1989R/-1		2SA1989R	AB	L907	RCILP0271TAZZ		Coil, 33μH	AE
Q7407	VS2SC5384C/-1		2SC5384C	AB	L908	VPCQM100KR41N		Peaking, 10μH	AC
			(AH30S/H/E/EX)		L909	VPD9M100KR86N		Peaking, 10μH	AC
Q7408	VS2SC5383F/-1		2SC5383F	AB	L910	RCILP0344TAZZ		Coil, 4.7μH	AD
Q7409	VS2SA1989R/-1		2SA1989R	AB	L911	VPD9M100KR86N		Peaking, 10μH	AC
Q7410	VSRT1N241U/-1		RT1N241U	AB	L912	VPD9M121J140N		Peaking, 120μH	AC
Q7451	VS2SC5384C/-1		2SC5384C	AB	L913	VPD9M220K2R0N		Peaking, 22μH	AC
Q7452	VS2SC5384C/-1		2SC5384C	AB	L914	VPD9M100KR86N		Peaking, 10μH	AC
Q7453	VSRT1N241U/-1		RT1N241U	AB	L915	VPD9M100KR86N		Peaking, 10μH	AC
			(AH30S/H/E/EX)		L917	RCILP0344TAZZ		Coil, 4.7μH	AD
Q7454	VSRN4983//1		RN4983	AC	L918	RCILP0287TAZZ		Coil, 47μH	AD
			(AH30S/H/E/EX)		L919	VPCCM2R2MR09N		Peaking, 2.2μH	AC
Q7455	VSHN1B04FU/-1		HN1B04FU	AC	L920	RCILP0344TAZZ		Coil, 4.7μH	AD
Q8401	VS2SA1989R/-1		2SA1989R	AB	L921	RCILP0271TAZZ		Coil, 33μH	AE
Q8402	VS2SC5384C/-1		2SC5384C	AB	L922	RCILP0271TAZZ		Coil, 33μH	AE
Q8404	VS2SC5384C/-1		2SC5384C	AB	L923	RCILP0344TAZZ		Coil, 4.7μH	AD
Q8405	VS2SC5383F/-1		2SC5383F	AB	L924	RCILP0343TAZZ		Coil, 10μH	AD
Q8406	VS2SA1989R/-1		2SA1989R	AB	L925	RCILP0343TAZZ		Coil, 10μH	AD
Q8407	VSRT1N241U/-1		RT1N241U	AB	L926	VPCCM2R2MR09N		Peaking, 2.2μH	AC
Q8451	VSHN1C01FU/-1		HN1C01FU	AC	L927	VPCQM2R2MR15N		Peaking, 2.2μH	AC
Q8452	VSHN1C01FU/-1		HN1C01FU	AC	L928	RCILP0344TAZZ		Coil, 4.7μH	AD
Q8453	VSRT1P140U/-1		RT1P140U	AB	L929	RCILP0343TAZZ		Coil, 10μH	AD
					L930	RCILP0344TAZZ		Coil, 4.7μH	AD
					L931	RCILP0343TAZZ		Coil, 10μH	AD
DIODES					L1401	VPD9M2R7J1R0N		Peaking, 2.7μH	AC
D601	VHDMA132K//1		MA132K	AA	L1402	VPD9M1R0JR57N		Peaking, 1μH	AB
D701	VHD1SS355//1		1SS355	AB	L1451	VPD9M220K2R0N		Peaking, 22μH	AC
D702	RH-DX0182TAZZ		DX0182TA	AD	L1452	VPD9M100KR86N		Peaking, 10μH	AC
D703	VHDMA132K//1		MA132K	AA	L1453	VPD9M120J1R9N		Peaking, 12μH	AB
D704	RH-DX0182TAZZ		DX0182TA	AD	L3801	VPD9M220J2R7N		Peaking, 22μH	AC
D900	VHDF1J2H//1		F1J2H	AD	L3802	VPD9M100J1R7N		Peaking, 10μH	AC
D901	VHDFS1J3//1		FS1J3	AD	L6401	VPD9M820J9R5N		Peaking, 82μH	AC
D902	VHDFS1J3//1		FS1J3	AD	L6402	VPBBM331J260N		Peaking, 330μH	AB
D903	VHD1SS355//1		1SS355	AB	L6403	VPD9M680J8R6N		Peaking, 68μH	AC
D904	VHDF02J9//1		F02J9	AD	L7401	VPD9M1R0JR57N		Peaking, 1μH	AB
D905	VHDDA227//1		DA227	AB	L7402	VPD9M180J2R4N		Peaking, 18μH	AC
D906	VHDF02J9//1		F02J9	AD				(AH30S/H/E/EX)	
D913	VHDF1J2H//1		F1J2H	AD	L7403	VPD9M220J2R7N		Peaking, 22μH	AC
D914	VHDF1J2H//1		F1J2H	AD	L7404	VPBBM471J310N		Peaking, 470μH	AB
D1451	VHDMA133//1		MA133	AB	L7405	VPD9M221J210N		Peaking, 220μH	AB
D1802	RH-EX1399CEZZ		Zener, EX1399CE	AB	L7406	VPBBM331J260N		Peaking, 330μH	AB
D1901	VHDMA2S111/-1		MA2S111	AC	L7407	VPD9M330J3R6N		Peaking, 33μH	AC
D2909	RH-EX0187TAZZ		Zener, EX0187TA	AC				(AH30S/H/E/EX)	
D2910	VHDF1J2H//1		F1J2H	AD	L7408	VPBBM331J260N		Peaking, 330μH	AB
D2912	VHDBAS316//1		BAS316	AB	L7452	VPD9M8R2J2R0N		Peaking, 8.2μH	AC
D2913	VHDF1J2H//1		F1J2H	AD	L7453	VPD9M8R2J2R0N		Peaking, 8.2μH	AC
D2914	VHD1SS355//1		1SS355	AB				(AH30S/H/E/EX)	
D3800	VHDAHVC359TR-1		HVC359TR	AD	L8401	VPD9M1R8JR84N		Peaking, 1.8μH	AC
					L8402	VPD9M2R2JR96N		Peaking, 2.2μH	AC
PACKAGED CIRCUITS									
TH3800	VHHT1103K44-1		Thermistor	AD					

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
L8404	VPD9M221J210N		Peaking, 220μH	AB	C607	VCKYCZ1CB103K	0.01	16V Ceramic	AB
L8405	VP-1M391J330N		Peaking, 390μH	AB	C608	VCKYCZ1CB103K	0.01	16V Ceramic	AB
L8451	VPD9M820J9R5N		Peaking, 82μH	AC	C609	VCKYCY1CF334Z	0.33	16V Ceramic	AA
L8452	VPD9M221J210N		Peaking, 220μH	AB	C610	VCKYCZ1CB103K	0.01	16V Ceramic	AB
△ T901	RTRNZ0154TAZZ		Power Transformer	AF	C611	VCEAPF0JW226M	22	6.3V Electrolytic	AB
CAPACITORS					C612	VCEAPH1HW474M	0.47	50V Electrolytic	AB
C151	VCSATA1AJ106M	10	10V Tantalum	AC	C613	VCKYCZ1CB103K	0.01	16V Ceramic	AB
C152	VCKYCZ1AF104Z	0.1	10V Ceramic	AB	C614	VCKYCZ1CB223K	0.022	16V Ceramic	AC
C153	VCSATA1AJ106M	10	10V Tantalum	AC	C615	VCEAPH1HW105M	1	50V Electrolytic	AB
C154	VCSATA1AJ106M	10	10V Tantalum	AC	C616	VCKYCZ1HB102K	1000p	50V Ceramic	AB
C155	VCKYCZ1AF104Z	0.1	10V Ceramic	AB	C617	VCEAPF0JW336M	33	6.3V Electrolytic	AB
C156	VCKYCZ1AF104Z	0.1	10V Ceramic	AB	C618	VCKYCY0JB105K	1	6.3V Ceramic	AC
C158	VCKYCZ1HB471K	470p	50V Ceramic	AB	C619	VCSATA1DJ475M	4.7	20V Tantalum	AC
C159	VCKYCZ1AF104Z	0.1	10V Ceramic	AB	C620	VCKYCZ1CB103K	0.01	16V Ceramic	AB
C161	VCKYCZ1HF103Z	0.01	50V Ceramic	AB	C621	VCSATA1DJ475M	4.7	20V Tantalum	AC
C162	VCSATA0JJ156M	15	6.3V Tantalum	AC	C622	VCSAPD1DJ474M	0.47	20V Tantalum	AD
C163	VCKYCZ1HF103Z	0.01	50V Ceramic	AB	C623	VCSATA0JJ106M	10	6.3V Tantalum	AD
C164	VCKYCZ1HF103Z	0.01	50V Ceramic	AB	C624	VCEAPF0JW476M	47	6.3V Electrolytic	AB
C403	VCKYCZ1CB103K	0.01	16V Ceramic	AB	C625	VCSATA1DJ475M	4.7	20V Tantalum	AC
C404	VCKYCZ1CB103K	0.01	16V Ceramic	AB	C626	VCKYCZ1CB103K	0.01	16V Ceramic	AB
C405	VCKYCZ1CB103K	0.01	16V Ceramic	AB	C627	VCKYCZ1CB103K	0.01	16V Ceramic	AB
C406	VCKYCZ1CB103K	0.01	16V Ceramic	AB	C628	VCKYCZ1EB682K	6800p	25V Ceramic	AB
C407	VCKYCZ1CB103K	0.01	16V Ceramic	AB	C629	VCKYCZ1HB332K	3300p	50V Ceramic	AA
C408	VCKYCZ1CB103K	0.01	16V Ceramic	AB	C630	VCKYCZ1CB103K	0.01	16V Ceramic	AB
C409	VCKYCZ1CB103K	0.01	16V Ceramic	AB	C631	VCSAPD1CJ105M	1	16V Tantalum	AC
C411	VCSATA0JJ106M	10	6.3V Tantalum	AD	C632	VCKYCZ1HB222K	2200p	50V Ceramic	AB
C412	VCSATA0JJ106M	10	6.3V Tantalum	AD	C633	VCKYCZ1AB104K	0.1	10V Ceramic	AB
C414	VCKYCZ1HF103Z	0.01	50V Ceramic	AB	C634	VCKYCZ1AB104K	0.1	10V Ceramic	AB
C415	VCKYCZ1HF103Z	0.01	50V Ceramic	AB	C635	VCKYCZ1CB103K	0.01	16V Ceramic	AB
C416	VCKYCZ1HF103Z	0.01	50V Ceramic	AB	C636	VCSAPD1CJ105M	1	16V Tantalum	AC
C419	VCKYCZ1CB103K	0.01	16V Ceramic	AB	C637	VCSATE1AJ476M	47	10V Tantalum	AD
C421	VCSATA0JJ106M	10	6.3V Tantalum	AD	C638	VCKYCZ1CB223K	0.022	16V Ceramic	AC
C422	VCKYCZ1CB103K	0.01	16V Ceramic	AB	C641	VCKYCZ1CB103K	0.01	16V Ceramic	AB
C425	VCKYCZ1CB103K	0.01	16V Ceramic	AB	C701	VCKYCZ1HB102K	1000p	50V Ceramic	AB
C426	VCKYCZ1CB103K	0.01	16V Ceramic	AB	C702	VCKYCZ1HB102K	1000p	50V Ceramic	AB
C429	VCKYCZ1HF103Z	0.01	50V Ceramic	AB	C703	VCKYCZ1HB102K	1000p	50V Ceramic	AB
C430	VCKYCZ1HF103Z	0.01	50V Ceramic	AB	C704	VCKYCZ1HB102K	1000p	50V Ceramic	AB
C432	VCKYCZ1HF103Z	0.01	50V Ceramic	AB	C705	VCKYCZ1HB102K	1000p	50V Ceramic	AB
C434	VCKYCZ1HF103Z	0.01	50V Ceramic	AB				(AH30S/H/E/EX)	
C436	VCKYCZ1HF103Z	0.01	50V Ceramic	AB	C706	VCKYCZ1HB102K	1000p	50V Ceramic	AB
C437	VCKYCZ1HF103Z	0.01	50V Ceramic	AB	C707	VCKYCZ1HB102K	1000p	50V Ceramic	AB
C439	VCKYCZ1CB103K	0.01	16V Ceramic	AB				(AH30S/H/E/EX)	
C440	VCKYCY0JB105K	1	6.3V Ceramic	AC	C708	VCKYCZ1AB104K	0.1	10V Ceramic	AB
C441	VCKYCZ1AB104K	0.1	10V Ceramic	AB	C709	RC-KZ0052TAZZ	4.7	16V Ceramic	AC
C442	VCKYCZ1CB103K	0.01	16V Ceramic	AB	C711	VCKYCY1AF105Z	1	10V Ceramic	AC
C443	VCKYCZ1CB103K	0.01	16V Ceramic	AB	C712	VCCCCZ1HH220J	22p	50V Ceramic	AB
C445	VCKYCZ1CB103K	0.01	16V Ceramic	AB	C713	VCCCCZ1HH180J	18p	50V Ceramic	AB
C446	VCKYCZ1CB103K	0.01	16V Ceramic	AB	C714	VCKYCZ1HF103Z	0.01	50V Ceramic	AB
C447	VCKYCZ1AB104K	0.1	10V Ceramic	AB	C715	VCKYCZ1HB102K	1000p	50V Ceramic	AB
C448	VCSATA0JJ106M	10	6.3V Tantalum	AD	C716	VCSATA1AJ106M	10	10V Tantalum	AC
C449	VCKYCZ1CB103K	0.01	16V Ceramic	AB	C717	VCKYCZ1AB104K	0.1	10V Ceramic	AB
C455	VCKYCZ1CB103K	0.01	16V Ceramic	AB	C718	VCKYCZ1AB104K	0.1	10V Ceramic	AB
C456	VCKYCZ1CB103K	0.01	16V Ceramic	AB	C720	VCKYCZ1AB104K	0.1	10V Ceramic	AB
C457	VCKYCZ1CB103K	0.01	16V Ceramic	AB	C721	VCCCCZ1HH330J	33p	50V Ceramic	AB
C458	VCKYCZ1CB103K	0.01	16V Ceramic	AB	C722	VCKYCZ1AB104K	0.1	10V Ceramic	AB
C460	VCKYCY0JB105K	1	6.3V Ceramic	AC	C724	VCKYCZ1AB104K	0.1	10V Ceramic	AB
C461	VCKYCZ1CB103K	0.01	16V Ceramic	AB	C725	VCKYCZ1AB104K	0.1	10V Ceramic	AB
C462	VCSATA1AJ106M	10	10V Tantalum	AC	C726	VCKYCZ1HB471K	470p	50V Ceramic	AB
C463	VCKYCZ1AB104K	0.1	10V Ceramic	AB	C727	VCKYCZ1HF103Z	0.01	50V Ceramic	AB
C464	VCKYCZ1AB104K	0.1	10V Ceramic	AB	C728	VCKYCZ1HF103Z	0.01	50V Ceramic	AB
C465	VCCCCZ1HH181J	180p	50V Ceramic	AB	C729	VCKYCZ1AB104K	0.1	10V Ceramic	AB
C466	VCKYCZ1AB104K	0.1	10V Ceramic	AB	C730	VCKYCZ1AB104K	0.1	10V Ceramic	AB
C467	VCKYCZ1AB104K	0.1	10V Ceramic	AB	C731	VCKYCZ1HF103Z	0.01	50V Ceramic	AB
C469	VCKYCZ1CB103K	0.01	16V Ceramic	AB	C732	VCSATA1AJ106M	10	10V Tantalum	AC
C471	VCKYCZ1CB103K	0.01	16V Ceramic	AB	C733	VCKYCY1AF105Z	1	10V Ceramic	AC
C472	VCKYCZ1CB103K	0.01	16V Ceramic	AB	C737	VCKYCZ1AB104K	0.1	10V Ceramic	AB
C473	VCCCCZ1HH151J	150p	50V Ceramic	AB	C738	VCKYCZ1AB104K	0.1	10V Ceramic	AB
C475	VCSATA0JJ106M	10	6.3V Tantalum	AD	C750	VCKYCY0JB105K	1	6.3V Ceramic	AC
C601	VCSATA1CJ225M	2.2	16V Tantalum	AC	C800	VCKYTQ1CB105K	1	16V Ceramic	AC
C602	VCKYTV1CF225Z	2.2	16V Ceramic	AC	C801	VCKYTV1CB105K	1	16V Ceramic	AC
C603	VCEAPF0JW476M	47	6.3V Electrolytic	AB	C803	VCKYCY0JB105K	1	6.3V Ceramic	AC
C604	VCSATE1AJ476M	47	10V Tantalum	AD	C804	VCKYCY0JB105K	1	6.3V Ceramic	AC
C605	VCKYCZ1CB103K	0.01	16V Ceramic	AB	C805	VCKYCY0JB105K	1	6.3V Ceramic	AC
C606	VCKYCZ1CB103K	0.01	16V Ceramic	AB	C900	RC-KZ0070TAZZ	4.7	16V Ceramic	AD
					C901	RC-KZ0070TAZZ	4.7	16V Ceramic	AD

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
C902	RC-KZ0070TAZZ	4.7	16V Ceramic	AD	C1908	VCKYCY1AB104K	0.1	10V Ceramic	AB
C903	RC-KZ0070TAZZ	4.7	16V Ceramic	AD	C1909	VCKYCY1AB104K	0.1	10V Ceramic	AB
C904	RC-KZ0070TAZZ	4.7	16V Ceramic	AD	C1910	VCKYCY1AB104K	0.1	10V Ceramic	AB
C905	RC-KZ0070TAZZ	4.7	16V Ceramic	AD	C1911	VCKYCY1AB104K	0.1	10V Ceramic	AB
C906	RC-KZ0070TAZZ	4.7	16V Ceramic	AD	C1912	VCCCCZ1HH101J	100p	50V Ceramic	AB
C907	RC-KZ0070TAZZ	4.7	16V Ceramic	AD	C1913	VCKYCY1AB224K	0.22	10V Ceramic	AB
C909	VCKYCY0JB105K	1	6.3V Ceramic	AC	C1914	VCKYCY1HB102K	1000p	50V Ceramic	AB
C910	VCKYTV1AB105K	1	10V Ceramic	AD	C1915	VCKYCY1EB472K	4700p	25V Ceramic	AB
C912	RC-KZ0070TAZZ	4.7	16V Ceramic	AD	C1916	VCKYCY1AB104K	0.1	10V Ceramic	AB
C915	VCKYCY0JB105K	1	6.3V Ceramic	AC	C1917	VCKYCY1AB104K	0.1	10V Ceramic	AB
C916	RC-KZ0054TAZZ	2.2	16V Ceramic	AD	C1918	VCKYCY1AB104K	0.1	10V Ceramic	AB
C917	RC-KZ0054TAZZ	2.2	16V Ceramic	AD	C1919	VCKYCY1AB104K	0.1	10V Ceramic	AB
C918	RC-KZ0055TAZZ	3.3	10V Ceramic	AD	C1920	VCKYCY1HB152K	1500p	50V Ceramic	AB
C919	RC-KZ0084TAZZ	1	25V Ceramic	AC	C1921	VCKYCY1HB222K	2200p	50V Ceramic	AB
C920	RC-KZ0055TAZZ	3.3	10V Ceramic	AD	C1922	VCKYCY1HB561K	560p	50V Ceramic	AC
C921	RC-KZ0084TAZZ	1	25V Ceramic	AC	C1923	VCKYCY1HB102K	1000p	50V Ceramic	AB
C922	RC-KZ0084TAZZ	1	25V Ceramic	AC	C1924	VCKYCY1HB102K	1000p	50V Ceramic	AB
C923	VCKYTV1EB104K	0.1	25V Ceramic	AB	C1925	VCKYCY1HB332K	3300p	50V Ceramic	AA
C924	VCKYTV1CF105Z	1	16V Ceramic	AB	C1926	VCKYCY1HB152K	1500p	50V Ceramic	AB
C925	VCKYTV1CF105Z	1	16V Ceramic	AB	C1927	VCKYCY1HB102K	1000p	50V Ceramic	AB
C926	VCKYTV1CF105Z	1	16V Ceramic	AB	C1928	VCKYCY1HB102K	1000p	50V Ceramic	AB
C927	VCKYTV1EB104K	0.1	25V Ceramic	AB	C1929	VCCCCZ1EH271J	270p	25V Ceramic	AA
C930	VCKYCY1AB104K	0.1	10V Ceramic	AB	C2401	VCCCCY1HH471J	470p	50V Ceramic	AA
C931	RC-KZ0070TAZZ	4.7	16V Ceramic	AD	C2402	VCKYCY1CB103K	0.01	16V Ceramic	AB
C932	RC-KZ0070TAZZ	4.7	16V Ceramic	AD	C2403	VCKYCY1CB103K	0.01	16V Ceramic	AB
C933	RC-KZ0055TAZZ	3.3	10V Ceramic	AD	C2404	VCKYCY1CB104K	0.1	16V Ceramic	AB
C934	RC-KZ0054TAZZ	2.2	16V Ceramic	AD	C2405	VCKYCY1CB104K	0.1	16V Ceramic	AB
C935	RC-KZ0053TAZZ	10	10V Ceramic	AD	C2406	VCKYCY1CB103K	0.01	16V Ceramic	AB
C936	RC-KZ0053TAZZ	10	10V Ceramic	AD	C2407	VCKYCY1CB103K	0.01	16V Ceramic	AB
C937	RC-KZ0070TAZZ	4.7	16V Ceramic	AD	C2408	VCCCCZ1HH820J	82p	50V Ceramic	AB
C938	RC-KZ0070TAZZ	4.7	16V Ceramic	AD	C2409	VCKYCY0JB105K	1	6.3V Ceramic	AC
C939	RC-KZ0070TAZZ	4.7	16V Ceramic	AD	C2701	VCKYCY1AB104K	0.1	10V Ceramic	AB
C940	RC-KZ0055TAZZ	3.3	10V Ceramic	AD	C2702	VCKYCY1AB104K	0.1	10V Ceramic	AB
C941	RC-KZ0055TAZZ	3.3	10V Ceramic	AD	C2703	VCKYCY1AB104K	0.1	10V Ceramic	AB
C942	RC-KZ0084TAZZ	1	25V Ceramic	AC	C2904	VCKYTV1AB105K	1	10V Ceramic	AD
C943	RC-KZ0070TAZZ	4.7	16V Ceramic	AD	C2906	VCKYCY1AB104K	0.1	10V Ceramic	AB
C944	VCKYCY1CB103K	0.01	16V Ceramic	AB	C2907	VCKYCY1CB104K	0.1	16V Ceramic	AB
C945	VCKYCY1EF104Z	0.1	25V Ceramic	AA	C2908	VCKYCY1AB104K	0.1	10V Ceramic	AB
C946	RC-KZ0055TAZZ	3.3	10V Ceramic	AD	C2909	VCKYCY1AB104K	0.1	10V Ceramic	AB
C947	RC-KZ0070TAZZ	4.7	16V Ceramic	AD	C2910	VCKYCY1CB104K	0.1	16V Ceramic	AB
C948	RC-KZ0070TAZZ	4.7	16V Ceramic	AD	C2911	VCKYTV1AB105K	1	10V Ceramic	AD
C950	VCKYCY1HB102K	1000p	50V Ceramic	AB	C3602	VCKYCY1HB102K	1000p	50V Ceramic	AB
C951	VCKYCY1HB102K	1000p	50V Ceramic	AB	C3603	VCKYCY1HB102K	1000p	50V Ceramic	AB
C952	VCKYCY1AB104K	0.1	10V Ceramic	AB	C3800	VCKYCY1HB561K	560p	50V Ceramic	AC
C953	VCKYCY1AB104K	0.1	10V Ceramic	AB	C3801	VCKYCY1AB104K	0.1	10V Ceramic	AB
C955	VCKYCY1AB104K	0.1	10V Ceramic	AB	C3803	VCKYCY1HB102K	1000p	50V Ceramic	AB
C956	VCKYCY1AB104K	0.1	10V Ceramic	AB	C3804	VCKYTV1CB105K	1	16V Ceramic	AC
C1401	VCCCCZ1HH390J	39p	50V Ceramic	AB	C3805	VCCCCZ1HH151J	150p	50V Ceramic	AB
C1405	VCCCCZ1HH101J	100p	50V Ceramic	AB	C3806	VCCCCZ1HH220J	22p	50V Ceramic	AB
C1406	VCCCCZ1HH330J	33p	50V Ceramic	AB	C3807	VCKYCY1HB102K	1000p	50V Ceramic	AB
C1407	VCCCCZ1HH121J	120p	50V Ceramic	AB	C3808	VCCCCZ1HH560J	56p	50V Ceramic	AB
C1408	VCCCCZ1HH151J	150p	50V Ceramic	AB	C3812	VCKYCY1CF224Z	0.22	16V Ceramic	AA
C1415	VCKYCY1CB103K	0.01	16V Ceramic	AB	C3813	VCCCCZ1HH101J	100p	50V Ceramic	AB
C1416	VCKYCY1CB103K	0.01	16V Ceramic	AB	C3814	VCCCCZ1HH101J	100p	50V Ceramic	AB
C1451	VCSATE1AJ476M	47	10V Tantalum	AD	C3815	VCKYCY1AB104K	0.1	10V Ceramic	AB
C1452	VCSATE1AJ476M	47	10V Tantalum	AD	C3817	VCKYCY1AB104K	0.1	10V Ceramic	AB
C1453	VCKYCY1CB103K	0.01	16V Ceramic	AB	C3818	VCKYCY1HF103Z	0.01	50V Ceramic	AB
C1454	VCSATA0YJ106M	10	7V Tantalum	AC	C3819	VCKYCY1HF103Z	0.01	50V Ceramic	AB
C1456	VCCCCZ1HH100D	10p	50V Ceramic	AB	C6402	VCKYCY1CB103K	0.01	16V Ceramic	AB
C1458	VCKYCY1CB103K	0.01	16V Ceramic	AB	C6403	VCKYCY1CB103K	0.01	16V Ceramic	AB
C1459	VCKYCY1CB103K	0.01	16V Ceramic	AB	C6404	VCCCCY1HH561J	560p	50V Ceramic	AB
C1801	VCKYTV1EB104K	0.1	25V Ceramic	AB	C6406	VCCCCZ1HH121J	120p	50V Ceramic	AB
C1803	VCKYCY1HF103Z	0.01	50V Ceramic	AB	C6407	VCKYCY1AB104K	0.1	10V Ceramic	AB
C1805	VCKYCY1AF104Z	0.1	10V Ceramic	AB	C6408	VCCCCZ1HH121J	120p	50V Ceramic	AB
C1806	VCKYCY1HF103Z	0.01	50V Ceramic	AB	C6409	VCCCCZ1HH220J	22p	50V Ceramic	AB
C1808	VCKYTV1EB104K	0.1	25V Ceramic	AB	C6410	VCKYCY1CB103K	0.01	16V Ceramic	AB
C1809	VCKYCY0JB105K	1	6.3V Ceramic	AC	C6452	VCKYCY1CB103K	0.01	16V Ceramic	AB
C1811	VCSATE1EJ475M	4.7	25V Tantalum	AD	C7401	VCKYCY1CB103K	0.01	16V Ceramic	AB
C1812	VCKYCY1HF103Z	0.01	50V Ceramic	AB	C7402	VCCCCZ1HH150J	15p	50V Ceramic	AB
C1813	VCSATA1VJ105M	1	35V Tantalum	AC	C7403	VCCCCZ1HH270J	27p	50V Ceramic	AB
C1901	VCKYCY1HB102K	1000p	50V Ceramic	AB	C7404	VCCCCZ1HH820J	82p	50V Ceramic	AB
C1902	VCKYCY1CB103K	0.01	16V Ceramic	AB				(AH30S/H/E/EX)	
C1903	VCKYCY1AB104K	0.1	10V Ceramic	AB	C7405	VCKYCY1CB103K	0.01	16V Ceramic	AB
C1904	VCKYCY1AB104K	0.1	10V Ceramic	AB	C7407	VCCCCZ1HH180J	18p	50V Ceramic	AB
C1907	VCKYCY1AB473K	0.047	10V Ceramic	AB	C7408	VCKYCY1HB332K	3300p	50V Ceramic	AA

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
C7409	VCKYCY1CB103K	0.01	16V Ceramic	AB	R451	VRS-CZ1JF392J	3.9k	1/16W Metal Oxide	AA
C7410	VCCCCY1HH221J	220p	50V Ceramic	AA	R452	VRS-CZ1JF823D	82k	1/16W Metal Oxide	AB
C7411	VCCCCZ1HH360J	36p	50V Ceramic	AA	R453	VRS-CZ1JF472J	4.7k	1/16W Metal Oxide	AA
C7412	VCCCCY1HH271J	270p	50V Ceramic	AA	R454	VRS-CZ1JF392J	3.9k	1/16W Metal Oxide	AA
		(AH30S/H/E/EX)			R455	VRS-CZ1JF682J	6.8k	1/16W Metal Oxide	AA
C7413	VCKYCY0JB105K	1	6.3V Ceramic	AC	R456	VRS-CZ1JF272J	2.7k	1/16W Metal Oxide	AA
C7414	VCKYCY1AB104K	0.1	10V Ceramic	AB	R457	VRS-CZ1JF222J	2.2k	1/16W Metal Oxide	AA
C7415	VCCCCZ1HH360J	36p	50V Ceramic	AA	R458	VRS-CZ1JF103D	10k	1/16W Metal Oxide	AB
C7455	VCCCCZ1HH150J	15p	50V Ceramic	AB	R459	VRS-CZ1JF392J	3.9k	1/16W Metal Oxide	AA
		(AH30S/H/E/EX)			R460	VRS-CZ1JF392J	3.9k	1/16W Metal Oxide	AA
C7455	VCCCCZ1HH470J	47p	50V Ceramic	AB	R461	VRS-CZ1JF272J	2.7k	1/16W Metal Oxide	AA
		(A10S/H/E/EX)			R462	VRS-CZ1JF222J	2.2k	1/16W Metal Oxide	AA
C7456	VCCCCZ1HH330J	33p	50V Ceramic	AB	R463	VRS-CZ1JF822J	8.2k	1/16W Metal Oxide	AA
		(AH30S/H/E/EX)			R464	VRS-CZ1JF153J	15k	1/16W Metal Oxide	AA
C7459	VCKYCY1CB103K	0.01	16V Ceramic	AB	R488	VRS-CY1JF000J	0	1/16W Metal Oxide	AA
C7460	VCKYCY1HB471K	470p	50V Ceramic	AB	R489	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA
C7462	VCKYCY1CB103K	0.01	16V Ceramic	AB	R496	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA
C7463	VCKYCY1CB103K	0.01	16V Ceramic	AB	R498	VRS-CZ1JF222J	2.2k	1/16W Metal Oxide	AA
C8401	VCKYCY1CB103K	0.01	16V Ceramic	AB	R602	VRS-CZ1JF332J	3.3k	1/16W Metal Oxide	AA
C8403	VCCCCZ1HH330J	33p	50V Ceramic	AB	R603	VRS-CZ1JF154J	150k	1/16W Metal Oxide	AA
C8404	VCCCCZ1HH180J	18p	50V Ceramic	AB	R604	VRS-CZ1JF153J	15k	1/16W Metal Oxide	AA
C8405	VCCCCZ1HH390J	39p	50V Ceramic	AB	R605	VRS-CZ1JF472J	4.7k	1/16W Metal Oxide	AA
C8408	VCCCCZ1HH470J	47p	50V Ceramic	AB	R606	VRS-CZ1JF334J	330k	1/16W Metal Oxide	AA
C8409	VCCCCZ1HH221J	220p	50V Ceramic	AB	R607	VRS-CZ1JF334J	330k	1/16W Metal Oxide	AA
C8410	VCCCCZ1HH330J	33p	50V Ceramic	AB	R609	VRS-CZ1JF222J	2.2k	1/16W Metal Oxide	AA
C8411	VCKYCY1CB103K	0.01	16V Ceramic	AB	R612	VRS-CZ1JF681J	680	1/16W Metal Oxide	AA
C8412	VCKYCY1CB103K	0.01	16V Ceramic	AB	R614	VRS-CZ1JF122J	1.2k	1/16W Metal Oxide	AA
C8413	VCCCCZ1HH470J	47p	50V Ceramic	AB	R615	VRS-CZ1JF561J	560	1/16W Metal Oxide	AA
C8414	VCKYCY0JB105K	1	6.3V Ceramic	AC	R616	VRS-CZ1JF333J	33k	1/16W Metal Oxide	AA
C8451	VCKYCY1CB103K	0.01	16V Ceramic	AB	R617	VRS-CZ1JF335J	3.3M	1/16W Metal Oxide	AA
C8452	VCKYCY1CB103K	0.01	16V Ceramic	AB	R618	VRS-CZ1JF154J	150k	1/16W Metal Oxide	AA
C8453	VCCCCZ1HH560J	56p	50V Ceramic	AB	R619	VRS-CZ1JF274J	270k	1/16W Metal Oxide	AA
C8454	VCCCCZ1HH220J	22p	50V Ceramic	AB	R624	VRS-CZ1JF182J	1.8k	1/16W Metal Oxide	AA
C8455	VCKYCY1HB681K	680p	50V Ceramic	AB	R625	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA
C8456	VCKYCY1CB103K	0.01	16V Ceramic	AB	R626	VRS-CZ1JF122J	1.2k	1/16W Metal Oxide	AA
C8458	VCKYCY1CB103K	0.01	16V Ceramic	AB	R627	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA
C8461	VCKYCY1CB103K	0.01	16V Ceramic	AB	R628	VRS-CZ1JF472J	4.7k	1/16W Metal Oxide	AA
					R629	VRS-CZ1JF152J	1.5k	1/16W Metal Oxide	AA
					R632	VRS-CZ1JF822J	8.2k	1/16W Metal Oxide	AA
					R633	VRS-CZ1JF224J	220k	1/16W Metal Oxide	AA
					R702	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA
					R703	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA
					R704	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA
					R705	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA
					R707	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA
					R708	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA
					R709	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA
					R710	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA
					R711	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA
					R712	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA
					R713	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA
					R714	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA
					R715	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA
					R716	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA
					R717	VRS-CZ1JF224J	220k	1/16W Metal Oxide	AA
					R718	VRS-CZ1JF224J	220k	1/16W Metal Oxide	AA
					R719	VRS-CZ1JF224J	220k	1/16W Metal Oxide	AA
					R720	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA
					R722	VRS-CZ1JF224J	220k	1/16W Metal Oxide	AA
					R723	VRS-CZ1JF104J	100k	1/16W Metal Oxide	AA
					R724	VRS-CZ1JF104J	100k	1/16W Metal Oxide	AA
					R725	VRS-CZ1JF104J	100k	1/16W Metal Oxide	AA
					R726	VRS-CZ1JF104J	100k	1/16W Metal Oxide	AA
					R727	VRS-CZ1JF104J	100k	1/16W Metal Oxide	AA
					R728	VRS-CZ1JF104J	100k	1/16W Metal Oxide	AA
					R729	VRS-CZ1JF104J	100k	1/16W Metal Oxide	AA
					R730	VRS-CZ1JF104J	100k	1/16W Metal Oxide	AA
					R731	VRS-CZ1JF104J	100k	1/16W Metal Oxide	AA
							(AH30S/H/E/EX)		
					R732	VRS-CZ1JF104J	100k	1/16W Metal Oxide	AA
							(AH30S/H/E/EX)		
					R733	VRS-CZ1JF822J	8.2k	1/16W Metal Oxide	AA
					R734	VRS-CZ1JF822J	8.2k	1/16W Metal Oxide	AA
					R735	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA
					R737	VRS-CZ1JF334J	330k	1/16W Metal Oxide	AA

RESISTORS

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
R738	VRS-CZ1JF104J	100k	1/16W Metal Oxide	AA	R925	VRS-CZ1JF753J	75k	1/16W Metal Oxide	AA
R740	VRS-CZ1JF473J	47k	1/16W Metal Oxide	AA	R926	VRS-CZ1JF393J	39k	1/16W Metal Oxide	AA
R741	VRS-CZ1JF104J	100k	1/16W Metal Oxide	AA	R928	VRS-CZ1JF472J	4.7k	1/16W Metal Oxide	AA
R742	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA	R929	VRS-CZ1JF681J	680	1/16W Metal Oxide	AA
R743	VRS-CZ1JF152J	1.5k	1/16W Metal Oxide	AA	R930	VRS-CZ1JF102D	1k	1/16W Metal Oxide	AA
R744	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA	R931	VRS-CY1JFR22J	0.22	1/16W Metal Oxide	AA
R745	VRS-CZ1JF183J	18k	1/16W Metal Oxide	AA	R933	VRS-CZ1JF224J	220k	1/16W Metal Oxide	AA
R746	VRS-CZ1JF682J	6.8k	1/16W Metal Oxide	AA	R934	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA
R747	VRS-CZ1JF563D	56k	1/16W Metal Oxide	AA	R935	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA
R748	VRS-CZ1JF154J	150k	1/16W Metal Oxide	AA	R936	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA
R749	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA	R937	VRS-CZ1JF222J	2.2k	1/16W Metal Oxide	AA
R750	VRS-CZ1JF104J	100k	1/16W Metal Oxide	AA	R938	VRS-CZ1JF822J	8.2k	1/16W Metal Oxide	AA
R751	VRS-CZ1JF184J	180k	1/16W Metal Oxide	AA	R939	VRS-CZ1JF333J	33k	1/16W Metal Oxide	AA
R753	VRS-CZ1JF221J	220	1/16W Metal Oxide	AA	R940	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA
R755	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA	R941	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA
R756	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA	R942	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA
R757	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA	R943	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA
R758	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA	R944	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA
R759	VRS-CZ1JF222J	2.2k	1/16W Metal Oxide	AA	R945	VRS-CZ1JF222J	2.2k	1/16W Metal Oxide	AA
R760	VRS-CZ1JF222J	2.2k	1/16W Metal Oxide	AA	R946	VRS-CZ1JF222J	2.2k	1/16W Metal Oxide	AA
R761	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA	R947	VRS-CZ1JF123D	12k	1/16W Metal Oxide	AA
R762	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA	R949	VRS-CZ1JF122J	1.2k	1/16W Metal Oxide	AA
R763	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA	R951	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA
R764	VRS-CZ1JF104J	100k	1/16W Metal Oxide	AA	R1403	VRS-CZ1JF333J	33k	1/16W Metal Oxide	AA
R766	VRS-CZ1JF181J	180	1/16W Metal Oxide	AA	R1404	VRS-CZ1JF153J	15k	1/16W Metal Oxide	AA
R767	VRS-CZ1JF392J	3.9k	1/16W Metal Oxide	AA	R1407	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA
R768	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA	R1408	VRS-CZ1JF152J	1.5k	1/16W Metal Oxide	AA
R769	VRS-CZ1JF471J	470	1/16W Metal Oxide	AA	R1409	VRS-CZ1JF181J	180	1/16W Metal Oxide	AA
R772	VRS-CZ1JF153D	15k	1/16W Metal Oxide	AB	R1410	VRS-CZ1JF820J	82	1/16W Metal Oxide	AA
R773	VRS-CZ1JF103D	10k	1/16W Metal Oxide	AB	R1411	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA
R774	VRS-CZ1JF104J	100k	1/16W Metal Oxide	AA	R1412	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA
R775	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA	R1413	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA
R776	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA	R1414	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA
R777	VRS-CZ1JF473J	47k	1/16W Metal Oxide	AA	R1416	VRS-CZ1JF471J	470	1/16W Metal Oxide	AA
R778	VRS-CZ1JF473J	47k	1/16W Metal Oxide	AA	R1425	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA
R779	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA	R1426	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA
R780	VRS-CZ1JF330J	33	1/16W Metal Oxide	AA	R1452	VRS-CZ1JF750D	75	1/16W Metal Oxide	AA
R781	VRS-CZ1JF330J	33	1/16W Metal Oxide	AA	R1453	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA
R785	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA	R1454	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA
R786	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA	R1455	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA
R787	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA	R1456	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA
R788	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA	R1458	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA
R789	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA	R1459	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA
R790	VRS-CZ1JF104J	100k	1/16W Metal Oxide	AA	R1802	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA
R791	VRS-CZ1JF104J	100k	1/16W Metal Oxide	AA	R1803	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA
R792	VRS-CZ1JF104J	100k	1/16W Metal Oxide	AA	R1805	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA
R793	VRS-CZ1JF104J	100k	1/16W Metal Oxide	AA	R1806	VRS-CZ1JF101J	100	1/16W Metal Oxide	AA
R794	VRS-CZ1JF104J	100k	1/16W Metal Oxide	AA	R1807	VRS-CZ1JF153J	15k	1/16W Metal Oxide	AA
R795	VRS-CZ1JF105J	1M	1/16W Metal Oxide	AA	R1808	VRS-CZ1JF123J	12k	1/16W Metal Oxide	AA
R797	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA	R1809	VRS-CZ1JF334J	330k	1/16W Metal Oxide	AA
R798	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA	R1810	VRS-CZ1JF223J	22k	1/16W Metal Oxide	AA
R799	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA	R1812	VRS-CZ1JF104J	100k	1/16W Metal Oxide	AA
R801	VRS-CZ1JF101J	100	1/16W Metal Oxide	AA	R1813	VRS-CZ1JF105J	1M	1/16W Metal Oxide	AA
R802	VRS-CZ1JF101J	100	1/16W Metal Oxide	AA	R1814	VRS-CZ1JF223J	22k	1/16W Metal Oxide	AA
R803	VRS-CZ1JF101J	100	1/16W Metal Oxide	AA	R1815	VRS-CZ1JF473J	47k	1/16W Metal Oxide	AA
R902	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA	R1816	VRS-CZ1JF100J	10	1/16W Metal Oxide	AA
R903	VRS-CZ1JF472J	4.7k	1/16W Metal Oxide	AA	R1817	VRS-CZ1JF100J	10	1/16W Metal Oxide	AA
R904	VRS-CZ1JF562J	5.6k	1/16W Metal Oxide	AA	R1818	VRS-CZ1JF472J	4.7k	1/16W Metal Oxide	AA
R905	VRS-CZ1JF472J	4.7k	1/16W Metal Oxide	AA	R1819	VRS-CZ1JF683J	68k	1/16W Metal Oxide	AA
R907	VRS-CZ1JF153J	15k	1/16W Metal Oxide	AA	R1820	VRS-CZ1JF512J	5.1k	1/16W Metal Oxide	AB
R908	VRS-CZ1JF153J	15k	1/16W Metal Oxide	AA	R1821	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA
R911	VRS-CZ1JF333J	33k	1/16W Metal Oxide	AA	R1901	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA
R912	VRS-CZ1JF333J	33k	1/16W Metal Oxide	AA	R1902	VRS-CZ1JF683J	68k	1/16W Metal Oxide	AA
R913	VRS-CZ1JF273J	27k	1/16W Metal Oxide	AA	R1903	VRS-CZ1JF333J	33k	1/16W Metal Oxide	AA
R914	VRS-CZ1JF753J	75k	1/16W Metal Oxide	AA	R1905	VRS-CZ1JF471J	470	1/16W Metal Oxide	AA
R915	VRS-CZ1JF823J	82k	1/16W Metal Oxide	AA	R1906	VRS-CZ1JF124J	120k	1/16W Metal Oxide	AA
R916	VRS-CZ1JF333J	33k	1/16W Metal Oxide	AA	R1907	VRS-CZ1JF183J	18k	1/16W Metal Oxide	AA
R917	VRS-CZ1JF104J	100k	1/16W Metal Oxide	AA	R1908	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA
R918	VRS-CZ1JF753J	75k	1/16W Metal Oxide	AA	R1909	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA
R919	VRS-CZ1JF123J	12k	1/16W Metal Oxide	AA	R1910	VRS-CZ1JF363J	36k	1/16W Metal Oxide	AA
R920	VRS-CZ1JF333J	33k	1/16W Metal Oxide	AA	R1911	VRS-CZ1JF563J	56k	1/16W Metal Oxide	AA
R921	VRS-CZ1JF333J	33k	1/16W Metal Oxide	AA	R1912	VRS-CZ1JF183J	18k	1/16W Metal Oxide	AA
R922	VRS-CZ1JF333J	33k	1/16W Metal Oxide	AA	R1913	VRS-CZ1JF105J	1M	1/16W Metal Oxide	AA
R923	VRS-CZ1JF823J	82k	1/16W Metal Oxide	AA	R1914	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA
R924	VRS-CZ1JF393J	39k	1/16W Metal Oxide	AA	R1915	VRS-CZ1JF333J	33k	1/16W Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
R1916	VRS-CZ1JF153J	15k	1/16W Metal Oxide	AA	R2419	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA
R1917	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA	R2420	VRS-CZ1JF222J	2.2k	1/16W Metal Oxide	AA
R1919	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA	R2421	VRS-CZ1JF222J	2.2k	1/16W Metal Oxide	AA
R1920	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA	R2423	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA
R1921	VRS-CZ1JF682J	6.8k	1/16W Metal Oxide	AA	R2901	VRS-CZ1JF105J	1M	1/16W Metal Oxide	AA
R1922	VRS-CZ1JF562J	5.6k	1/16W Metal Oxide	AA	R2902	VRS-CZ1JF122J	1.2k	1/16W Metal Oxide	AA
R1923	VRS-CZ1JF562J	5.6k	1/16W Metal Oxide	AA	R2903	VRS-CZ1JF123J	12k	1/16W Metal Oxide	AA
R1924	VRS-CZ1JF123J	12k	1/16W Metal Oxide	AA	R2905	VRS-CZ1JF104J	100k	1/16W Metal Oxide	AA
R1925	VRS-CZ1JF473J	47k	1/16W Metal Oxide	AA	R2908	VRS-CZ1JF681J	680	1/16W Metal Oxide	AA
R1926	VRS-CZ1JF333J	33k	1/16W Metal Oxide	AA	R2911	VRS-CZ1JF562J	5.6k	1/16W Metal Oxide	AA
R1927	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA	R2913	VRS-TV1JD3R3J	3.3	1/16W Metal Oxide	AA
R1929	VRS-CZ1JF333J	33k	1/16W Metal Oxide	AA	R2914	VRS-CZ1JF334D	330k	1/16W Metal Oxide	AA
R1930	VRS-CZ1JF472J	4.7k	1/16W Metal Oxide	AA	R2915	VRS-TQ2BD471J	470	1/8W Metal Oxide	AA
R1931	VRS-CZ1JF472J	4.7k	1/16W Metal Oxide	AA	R2921	VRS-CZ1JF184D	180k	1/16W Metal Oxide	AB
R1932	VRS-CZ1JF183J	18k	1/16W Metal Oxide	AA	R2922	VRS-CZ1JF184D	180k	1/16W Metal Oxide	AB
R1933	VRS-CZ1JF393J	39k	1/16W Metal Oxide	AA	R2923	VRS-CZ1JF823D	82k	1/16W Metal Oxide	AB
R1934	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA	R2925	VRS-CZ1JF123J	12k	1/16W Metal Oxide	AA
R1935	VRS-CZ1JF153J	15k	1/16W Metal Oxide	AA	R2932	VRS-TV2BDR12J	0.12	1/8W Metal Oxide	AB
R1936	VRS-CZ1JF243J	24k	1/16W Metal Oxide	AA	R2933	VRS-TV2BDR12J	0.12	1/8W Metal Oxide	AB
R1937	VRS-CZ1JF823J	82k	1/16W Metal Oxide	AA	R2934	VRS-CZ1JF821J	820	1/16W Metal Oxide	AA
R1938	VRS-CZ1JF104J	100k	1/16W Metal Oxide	AA	R2935	VRS-CZ1JF334J	330k	1/16W Metal Oxide	AA
R1939	VRS-CZ1JF393J	39k	1/16W Metal Oxide	AA	R2936	VRS-CZ1JF332J	3.3k	1/16W Metal Oxide	AA
R1940	VRS-CZ1JF563J	56k	1/16W Metal Oxide	AA	R2937	VRS-CZ1JF152J	1.5k	1/16W Metal Oxide	AA
R1941	VRS-CZ1JF273D	27k	1/16W Metal Oxide	AA	R2938	VRS-CZ1JF332J	3.3k	1/16W Metal Oxide	AA
R1942	VRS-CZ1JF333D	33k	1/16W Metal Oxide	AB	R2939	VRS-CZ1JF472D	4.7k	1/16W Metal Oxide	AB
R1943	VRS-CZ1JF105J	1M	1/16W Metal Oxide	AA	R2940	VRS-CZ1JF123J	12k	1/16W Metal Oxide	AA
R1944	VRS-CZ1JF333D	33k	1/16W Metal Oxide	AB	R2941	VRS-CZ1JF222D	2.2k	1/16W Metal Oxide	AA
R1945	VRS-CZ1JF563D	56k	1/16W Metal Oxide	AA	R2942	VRS-CZ1JF123D	12k	1/16W Metal Oxide	AA
R1946	VRS-CZ1JF203D	20k	1/16W Metal Oxide	AA	R2943	VRS-CZ1JF473J	47k	1/16W Metal Oxide	AA
R1947	VRS-CZ1JF333D	33k	1/16W Metal Oxide	AB	R2944	VRS-CZ1JF152J	1.5k	1/16W Metal Oxide	AA
R1948	VRS-CZ1JF105J	1M	1/16W Metal Oxide	AA	R2945	VRS-TV2BDR12J	0.12	1/8W Metal Oxide	AB
R1949	VRS-CZ1JF333J	33k	1/16W Metal Oxide	AA	R2946	VRS-CZ1JF473J	47k	1/16W Metal Oxide	AA
R1950	VRS-CZ1JF563J	56k	1/16W Metal Oxide	AA	R2947	VRS-CZ1JF473D	47k	1/16W Metal Oxide	AB
R1951	VRS-CZ1JF123D	12k	1/16W Metal Oxide	AA	R2948	VRS-CZ1JF222D	2.2k	1/16W Metal Oxide	AA
R1952	VRS-CZ1JF562D	5.6k	1/16W Metal Oxide	AB	R2949	VRS-CZ1JF104J	100k	1/16W Metal Oxide	AA
R1953	VRS-CZ1JF105J	1M	1/16W Metal Oxide	AA	R2950	VRS-CZ1JF101J	100	1/16W Metal Oxide	AA
R1955	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA	R2951	VRS-CZ1JF392J	3.9k	1/16W Metal Oxide	AA
R1956	VRS-CZ1JF473D	47k	1/16W Metal Oxide	AB	R3602	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA
R1957	VRS-CZ1JF472J	4.7k	1/16W Metal Oxide	AA	R3603	VRS-CZ1JF473J	47k	1/16W Metal Oxide	AA
R1959	VRS-CZ1JF153J	15k	1/16W Metal Oxide	AA	R3604	VRS-CZ1JF104J	100k	1/16W Metal Oxide	AA
R1960	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA	R3800	VRS-CZ1JF223J	22k	1/16W Metal Oxide	AA
R1961	VRS-CZ1JF471J	470	1/16W Metal Oxide	AA	R3801	VRS-CZ1JF473J	47k	1/16W Metal Oxide	AA
R1962	VRS-CZ1JF471J	470	1/16W Metal Oxide	AA	R3802	VRS-CZ1JF472J	4.7k	1/16W Metal Oxide	AA
R1963	VRS-CZ1JF331J	330	1/16W Metal Oxide	AA	R3803	VRS-CZ1JF472J	4.7k	1/16W Metal Oxide	AA
R1965	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA	R3804	VRS-CZ1JF683J	68k	1/16W Metal Oxide	AA
R1966	VRS-CZ1JF561J	560	1/16W Metal Oxide	AA	R3805	VRS-CZ1JF272D	2.7k	1/16W Metal Oxide	AB
R1967	VRS-CZ1JF561J	560	1/16W Metal Oxide	AA	R3806	VRS-CZ1JF562D	5.6k	1/16W Metal Oxide	AB
R1968	VRS-CZ1JF121J	120	1/16W Metal Oxide	AA	R3807	VRS-CZ1JF105J	1M	1/16W Metal Oxide	AA
R1970	VRS-CZ1JF471J	470	1/16W Metal Oxide	AA	R3808	VRS-CZ1JF683J	68k	1/16W Metal Oxide	AA
R1972	VRS-CZ1JF104J	100k	1/16W Metal Oxide	AA	R3809	VRS-CZ1JF223J	22k	1/16W Metal Oxide	AA
R1973	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA	R3810	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA
R1974	VRS-CZ1JF683J	68k	1/16W Metal Oxide	AA	R3812	VRS-CZ1JF564J	560k	1/16W Metal Oxide	AA
R1975	VRS-CZ1JF183J	18k	1/16W Metal Oxide	AA	R3816	VRS-CZ1JF564J	560k	1/16W Metal Oxide	AA
R1976	VRS-CZ1JF471J	470	1/16W Metal Oxide	AA	R3817	VRS-CZ1JF105J	1M	1/16W Metal Oxide	AA
R1980	VRS-CZ1JF561J	560	1/16W Metal Oxide	AA	R3818	VRS-CZ1JF471J	470	1/16W Metal Oxide	AA
R1981	VRS-CZ1JF561J	560	1/16W Metal Oxide	AA	R3819	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA
R1982	VRS-CZ1JF121J	120	1/16W Metal Oxide	AA	R3820	VRS-CZ1JF821J	820	1/16W Metal Oxide	AA
R2401	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA	R3822	VRS-CZ1JF471J	470	1/16W Metal Oxide	AA
R2402	VRS-CZ1JF561J	560	1/16W Metal Oxide	AA	R3823	VRS-CZ1JF471J	470	1/16W Metal Oxide	AA
R2403	VRS-CZ1JF471J	470	1/16W Metal Oxide	AA	R3824	VRS-CZ1JF471J	470	1/16W Metal Oxide	AA
R2404	VRS-CZ1JF152J	1.5k	1/16W Metal Oxide	AA	R3826	VRS-CZ1JF471J	470	1/16W Metal Oxide	AA
R2405	VRS-CZ1JF471J	470	1/16W Metal Oxide	AA	R3827	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA
R2406	VRS-CZ1JF222J	2.2k	1/16W Metal Oxide	AA	R3829	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA
R2407	VRS-CZ1JF273J	27k	1/16W Metal Oxide	AA	R3830	VRS-CZ1JF393J	39k	1/16W Metal Oxide	AA
R2408	VRS-CZ1JF822J	8.2k	1/16W Metal Oxide	AA	R3831	VRS-CZ1JF471J	470	1/16W Metal Oxide	AA
R2409	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA	R3832	VRS-CZ1JF393J	39k	1/16W Metal Oxide	AA
R2410	VRS-CZ1JF152J	1.5k	1/16W Metal Oxide	AA	R3833	VRS-CZ1JF471J	470	1/16W Metal Oxide	AA
R2411	VRS-CZ1JF821J	820	1/16W Metal Oxide	AA	R3834	VRS-CZ1JF104J	100k	1/16W Metal Oxide	AA
R2412	VRS-CZ1JF222J	2.2k	1/16W Metal Oxide	AA	R3835	VRS-CZ1JF471J	470	1/16W Metal Oxide	AA
R2413	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA	R3836	VRS-CZ1JF471J	470	1/16W Metal Oxide	AA
R2414	VRS-CZ1JF183D	18k	1/16W Metal Oxide	AB	R3837	VRS-CZ1JF561J	560	1/16W Metal Oxide	AA
R2415	VRS-CZ1JF561D	560	1/16W Metal Oxide	AA	R3838	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA
R2416	VRS-CZ1JF561D	560	1/16W Metal Oxide	AA	R3839	VRS-CZ1JF183J	18k	1/16W Metal Oxide	AA
R2417	VRS-CZ1JF183D	18k	1/16W Metal Oxide	AB	R3840	VRS-CZ1JF303D	30k	1/16W Metal Oxide	AA
R2418	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA	R3841	VRS-CZ1JF273J	27k	1/16W Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
R3842	VRS-CZ1JF153J	15k	1/16W Metal Oxide	AA	R7459	VRS-CZ1JF391J	390	1/16W Metal Oxide	AA
R3843	VRS-CZ1JF104J	100k	1/16W Metal Oxide	AA	R7460	VRS-CZ1JF271J	270	1/16W Metal Oxide	AA
R3844	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA	R7461	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA
R3845	VRS-CZ1JF682J	6.8k	1/16W Metal Oxide	AA				(A10S/H/E/EW/EX)	
R3846	VRS-CZ1JF273J	27k	1/16W Metal Oxide	AA	R7461	VRS-CZ1JF152J	1.5k	1/16W Metal Oxide	AA
R3848	VRS-CZ1JF273J	27k	1/16W Metal Oxide	AA				(AH30S/H/E/EX)	
R3850	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA	R7462	VRS-CZ1JF681J	680	1/16W Metal Oxide	AA
R3853	VRS-CZ1JF273D	27k	1/16W Metal Oxide	AA	R7463	VRS-CZ1JF561J	560	1/16W Metal Oxide	AA
R3854	VRS-CZ1JF183D	18k	1/16W Metal Oxide	AB	R7464	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA
R4703	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA	R7466	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA
			(A10S/H/E/EW/EX)		R7467	VRS-CZ1JF333J	33k	1/16W Metal Oxide	AA
R4704	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA	R7468	VRS-CZ1JF223J	22k	1/16W Metal Oxide	AA
			(A10S/H/E/EW/EX)		R7469	VRS-CZ1JF223J	22k	1/16W Metal Oxide	AA
R4706	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA	R7470	VRS-CZ1JF153J	15k	1/16W Metal Oxide	AA
R6401	VRS-CZ1JF222J	2.2k	1/16W Metal Oxide	AA	R7471	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA
R6402	VRS-CZ1JF821J	820	1/16W Metal Oxide	AA	R8401	VRS-CZ1JF181J	180	1/16W Metal Oxide	AA
R6403	VRS-CZ1JF821J	820	1/16W Metal Oxide	AA	R8402	VRS-CZ1JF333J	33k	1/16W Metal Oxide	AA
R6404	VRS-CZ1JF121J	120	1/16W Metal Oxide	AA	R8403	VRS-CZ1JF333J	33k	1/16W Metal Oxide	AA
R6407	VRS-CZ1JF273J	27k	1/16W Metal Oxide	AA	R8404	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA
R6408	VRS-CZ1JF153J	15k	1/16W Metal Oxide	AA	R8407	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA
R6409	VRS-CZ1JF561J	560	1/16W Metal Oxide	AA	R8412	VRS-CZ1JF471J	470	1/16W Metal Oxide	AA
R6410	VRS-CZ1JF561J	560	1/16W Metal Oxide	AA	R8413	VRS-CZ1JF471J	470	1/16W Metal Oxide	AA
R6411	VRS-CZ1JF561J	560	1/16W Metal Oxide	AA	R8416	VRS-CZ1JF821J	820	1/16W Metal Oxide	AA
R6413	VRS-CZ1JF123J	12k	1/16W Metal Oxide	AA	R8417	VRS-CZ1JF821J	820	1/16W Metal Oxide	AA
R6414	VRS-CZ1JF561J	560	1/16W Metal Oxide	AA	R8418	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA
R6415	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA	R8419	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA
R6416	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA	R8421	VRS-CZ1JF471J	470	1/16W Metal Oxide	AA
R6417	VRS-CZ1JF221J	220	1/16W Metal Oxide	AA	R8422	VRS-CZ1JF471J	470	1/16W Metal Oxide	AA
R6418	VRS-CZ1JF223J	22k	1/16W Metal Oxide	AA	R8451	VRS-CZ1JF471J	470	1/16W Metal Oxide	AA
R6419	VRS-CZ1JF473J	47k	1/16W Metal Oxide	AA	R8452	VRS-CZ1JF222J	2.2k	1/16W Metal Oxide	AA
R6452	VRS-CZ1JF821J	820	1/16W Metal Oxide	AA	R8453	VRS-CZ1JF152J	1.5k	1/16W Metal Oxide	AA
R6456	VRS-CZ1JF243J	24k	1/16W Metal Oxide	AA	R8454	VRS-CZ1JF392J	3.9k	1/16W Metal Oxide	AA
R6457	VRS-CZ1JF153J	15k	1/16W Metal Oxide	AA	R8455	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA
R6459	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA	R8456	VRS-CZ1JF821J	820	1/16W Metal Oxide	AA
R6460	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA	R8457	VRS-CZ1JF821J	820	1/16W Metal Oxide	AA
R7401	VRS-CZ1JF471J	470	1/16W Metal Oxide	AA	R8458	VRS-CZ1JF681D	680	1/16W Metal Oxide	AB
R7402	VRS-CZ1JF471J	470	1/16W Metal Oxide	AA	R8459	VRS-CZ1JF561J	560	1/16W Metal Oxide	AA
R7403	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA	R8460	VRS-CZ1JF102D	1k	1/16W Metal Oxide	AA
R7404	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA	R8461	VRS-CZ1JF821J	820	1/16W Metal Oxide	AA
R7405	VRS-CZ1JF151J	150	1/16W Metal Oxide	AA	R8462	VRS-CZ1JF183J	18k	1/16W Metal Oxide	AA
R7406	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA	R8463	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA
R7407	VRS-CZ1JF471J	470	1/16W Metal Oxide	AA	R8464	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA
R7408	VRS-CZ1JF222J	2.2k	1/16W Metal Oxide	AA	R8467	VRS-CZ1JF331D	330	1/16W Metal Oxide	AA
R7409	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA	R9410	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA
			(A10S/H/E/EW/EX)		R9919	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA
R7409	VRS-CZ1JF152J	1.5k	1/16W Metal Oxide	AA	R9921	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA
			(AH30S/H/E/EX)						
R7410	VRS-CZ1JF152J	1.5k	1/16W Metal Oxide	AA					
R7411	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA					
R7412	VRS-CZ1JF222J	2.2k	1/16W Metal Oxide	AA					
			(AH30S/H/E/EX)						
R7413	VRS-CZ1JF621J	620	1/16W Metal Oxide	AA					
R7414	VRS-CZ1JF221J	220	1/16W Metal Oxide	AA					
R7415	VRS-CZ1JF471J	470	1/16W Metal Oxide	AA					
R7416	VRS-CZ1JF222J	2.2k	1/16W Metal Oxide	AA					
R7417	VRS-CZ1JF561J	560	1/16W Metal Oxide	AA					
R7419	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA					
			(AH30S/H/E/EX)						
R7420	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA					
			(A10S/H/E/EW/EX)						
R7421	VRS-CZ1JF273J	27k	1/16W Metal Oxide	AA					
			(AH30S/H/E/EX)						
R7421	VRS-CZ1JF333J	33k	1/16W Metal Oxide	AA					
			(A10S/H/E/EW/EX)						
R7422	VRS-CZ1JF153J	15k	1/16W Metal Oxide	AA					
			(A10S/H/E/EW/EX)						
R7422	VRS-CZ1JF183J	18k	1/16W Metal Oxide	AA					
			(AH30S/H/E/EX)						
R7423	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA					
R7424	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA					
R7426	VRS-CZ1JF271J	270	1/16W Metal Oxide	AA					
R7451	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA					
R7454	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA					
R7455	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA					
R7456	VRS-CZ1JF152J	1.5k	1/16W Metal Oxide	AA					

MISCELLANEOUS PARTS

PSLDM3238TAFW	Shield	AC	
PSLDM3239TAFW	Shield	AC	
PSLDM3344TAFW	Shield	AC	
PZETV0412TAZZ	Insulator	AC	
CN701	QPLGN0263TAZZ	Plug, 2Pin	AB
CN702	QPLGN0264TAZZ	Plug, 2Pin	AC
CN703	QSOCN0860TAZZ	Socket, 8Pin	AE
CN3601	QSOCN1207REN1	Socket, 12Pin	AD
CN3800	QSOCN2471TAZZ	Socket, 24Pin	AE
CN7401	QCNCM7068TAZZ	Connector, 70Pin	AG
CN9401	QSOCN1860TAZZ	Socket, 18Pin	AE
△ CP901	QFS-L2526TAZZ	Fuse, 2.5A 64V	AC
△ CP902	QFS-L2526TAZZ	Fuse, 2.5A 64V	AC
△ CP903	QFS-L2526TAZZ	Fuse, 2.5A 64V	AC
FB151	RBLN-0107TAZZ	Balun, BLN-0107TA	AB
FB152	RBLN-0107TAZZ	Balun, BLN-0107TA	AB
FB3800	RBLN-0028TAZZ	Balun, BLN-0028TA	AB
P601	QPLGN0263TAZZ	Plug, 2Pin	AB
P902	QPLGN0364TAZZ	Plug, 3Pin	AC
P2901	QPLGN0664TAZZ	Plug, 6Pin	AD
P2902	QPLGN0764TAZZ	Plug, 7Pin	AD
SC151	QSOCN2071TAZZ	Socket, 20Pin	AD
SC152	QSOCN2471TAZZ	Socket, 24Pin	AE
SC901	QSOCN0772TAZZ	Socket, 7Pin	AC

Ref. No.	Part No.	★	Description	Code
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DUNTK2935QA10(VL-A10S/H/AH30S/H)
DUNTK2935QA11(VL-A10E/EW/EX/AH30E/EX)
CAMERA UNIT

INTEGRATED CIRCUITS

IC11	VHIUPD16510-1	UPD16510, V-Driver	AR
IC12	VHILR38590/-1	LR38590, Timing Generator	AR
IC101	VHICXA2006Q-1	CXA2006Q, CDS/AGC	AV
IC102	VHIMB88146A-1	MB88146A, D/A Converter	AH
IC551	VHIUPD16835-1	UPD16835	AM
IC552	VHINJM2902V-1	NJM2902V, OP-Amp	AD
IC553	VHINJM3414V-1	NJM3414V, OP-Amp	AF
IC554	VHITVHC74T/-1	TVHC74T	AF

TRANSISTORS

Q11	VSHN2C01FU/-1	HN2C01FU	AC
Q12	VS2SA1989R/-1	2SA1989R	AB
Q13	VS2SC5383F/-1	2SC5383F	AB
Q14	VS2SC5383F/-1	2SC5383F	AB
Q15	VS2SA1989R/-1	2SA1989R	AB
Q551	VSRN1902///-1	RN1902	AC

DIODE

D551	VHDMA132K/-1	MA132K	AA
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PACKAGED CIRCUIT

X11	RCRSC0173TAZZ	Crystal, CRSC0173TA	AG
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COILS

L11	VPBWM100KR50N	Peaking, 10μH	AC
L12	VPBWM470K2R6N	Peaking, 47μH	AC
L13	VPD9M470J6R6N	Peaking, 47μH	AC
L101	VPBWM100KR50N	Peaking, 10μH	AC
L551	VPBWM220K1R2N	Peaking, 22μH	AC
L553	VPBWM100KR50N	Peaking, 10μH	AC

CAPACITORS

C11	VCKYCZ1HF103Z	0.01 50V Ceramic	AB
C12	VCKYCZ1HF103Z	0.01 50V Ceramic	AB
C13	VCKYCY1HB103K	0.01 50V Ceramic	AA
C14	VCSATA1DJ475M	4.7 20V Tantalum	AC
C15	VCKYCZ1HF103Z	0.01 50V Ceramic	AB
C16	VCKYCZ1HF103Z	0.01 50V Ceramic	AB
C17	VCSATE1VJ335M	3.3 35V Tantalum	AD
C18	VCKYCZ1HF103Z	0.01 50V Ceramic	AB
C20	VCSATA1AJ106M	10 10V Tantalum	AC
C21	VCKYCZ1AF104Z	0.1 10V Ceramic	AB
C22	VCKYCZ1HF103Z	0.01 50V Ceramic	AB
C23	VCSATA1AJ106M	10 10V Tantalum	AC
C24	VCKYCZ1HF103Z	0.01 50V Ceramic	AB
C25	VCKYCZ1HB102K	1000p 50V Ceramic	AB
C26	VCSATA1AJ106M	10 10V Tantalum	AC
C27	VCKYCZ1CB103K	0.01 16V Ceramic	AB
C28	VCCCCY1HH270G	27p 50V Ceramic	AB
C29	VCSATE1VJ335M	3.3 35V Tantalum	AD
C30	VCKYCZ1HB102K	1000p 50V Ceramic	AB
C33	VCCCCY1HH360G	36p 50V Ceramic	AB
C34	VCCCCY1HH180G	18p 50V Ceramic	AB
C35	VCKYCZ1CB103K	0.01 16V Ceramic	AB
C36	VCKYCZ1CB103K	0.01 16V Ceramic	AB
C37	VCSATA1AJ106M	10 10V Tantalum	AC
C38	VCKYCY0JB105K	1 6.3V Ceramic	AC
C101	VCKYTV1AB105K	1 10V Ceramic	AD
C102	VCKYTV1AB105K	1 10V Ceramic	AD
C103	VCKYCZ1HF103Z	0.01 50V Ceramic	AB
C104	VCKYCZ1AF104Z	0.1 10V Ceramic	AB
C105	VCKYCZ1EF223Z	0.022 25V Ceramic	AB
C106	VCKYCZ1HF103Z	0.01 50V Ceramic	AB
C107	VCKYCZ1AF104Z	0.1 10V Ceramic	AB
C108	VCSATA1AJ106M	10 10V Tantalum	AC
C109	VCKYCZ1HF103Z	0.01 50V Ceramic	AB
C110	VCKYCZ1AF104Z	0.1 10V Ceramic	AB
C111	VCSATA1AJ106M	10 10V Tantalum	AC
C112	VCKYCZ1AF104Z	0.1 10V Ceramic	AB

Ref. No.	Part No.	★	Description	Code
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C113	VCSATA1AJ106M	10 10V Tantalum	AC
C114	VCKYCZ1AF104Z	0.1 10V Ceramic	AB
C115	VCSATA1AJ106M	10 10V Tantalum	AC
C116	VCKYCZ1AF104Z	0.1 10V Ceramic	AB
C117	VCCCCZ1HH150J	15p 50V Ceramic	AB
C118	VCKYCZ1AB104K	0.1 10V Ceramic	AB
C119	VCKYCZ1HB471K	470p 50V Ceramic	AB
C120	VCKYCZ1AF104Z	0.1 10V Ceramic	AB
C551	VCKYCZ1HF103Z	0.01 50V Ceramic	AB
C552	VCKYCZ1HF103Z	0.01 50V Ceramic	AB
C553	VCKYCZ1HF103Z	0.01 50V Ceramic	AB
C554	VCCCCZ1HH330J	33p 50V Ceramic	AB
C555	VCKYCZ1HF103Z	0.01 50V Ceramic	AB
C556	VCKYCZ1HF103Z	0.01 50V Ceramic	AB
C558	VCKYCZ1HF103Z	0.01 50V Ceramic	AB
C559	VCKYCZ1HF103Z	0.01 50V Ceramic	AB
C560	VCSATE1CJ156M	15 16V Tantalum	AD
C561	VCKYCZ1HF103Z	0.01 50V Ceramic	AB
C562	VCKYCZ1HF103Z	0.01 50V Ceramic	AB
C563	VCSATA1AJ106M	10 10V Tantalum	AC
C565	VCSATA1AJ106M	10 10V Tantalum	AC
C566	VCKYCZ1HF103Z	0.01 50V Ceramic	AB
C567	VCKYCZ1HF103Z	0.01 50V Ceramic	AB
C568	VCKYCZ1HF103Z	0.01 50V Ceramic	AB
C569	VCKYCZ1AF104Z	0.1 10V Ceramic	AB
C570	VCKYCZ1HF103Z	0.01 50V Ceramic	AB
C571	VCKYCZ1HF103Z	0.01 50V Ceramic	AB
C572	VCCCCZ1HH151J	150p 50V Ceramic	AB
C573	VCKYCY1AF105Z	1 10V Ceramic	AC
C574	VCKYCZ1HF103Z	0.01 50V Ceramic	AB
C575	VCKYCZ1HF103Z	0.01 50V Ceramic	AB

RESISTORS

R17	VRS-CZ1JF102J	1k 1/16W Metal Oxide	AA
R18	VRS-CZ1JF102J	1k 1/16W Metal Oxide	AA
R19	VRS-CZ1JF222J	2.2k 1/16W Metal Oxide	AA
R20	VRS-CZ1JF822J	8.2k 1/16W Metal Oxide	AA
R21	VRS-CZ1JF102J	1k 1/16W Metal Oxide	AA
R23	VRS-CZ1JF330J	33 1/16W Metal Oxide	AA
R27	VRS-CZ1JF820J	82 1/16W Metal Oxide	AA
R28	VRS-CZ1JF105J	1M 1/16W Metal Oxide	AA
R30	VRS-CZ1JF820J	82 1/16W Metal Oxide	AA
R31	VRS-CZ1JF471J	470 1/16W Metal Oxide	AA
R33	VRS-CZ1JF102D	1k 1/16W Metal Oxide	AA
R35	VRS-CZ1JF333D	33k 1/16W Metal Oxide	AB
R36	VRS-CZ1JF103D	10k 1/16W Metal Oxide	AB
R37	VRS-CZ1JF102D	1k 1/16W Metal Oxide	AA
R38	VRS-CZ1JF102J	1k 1/16W Metal Oxide	AA
R39	VRS-CZ1JF333D	33k 1/16W Metal Oxide	AB
R40	VRS-CZ1JF153D	15k 1/16W Metal Oxide	AB
R41	VRS-CZ1JF223D	22k 1/16W Metal Oxide	AB
R100	VRS-CZ1JF473J	47k 1/16W Metal Oxide	AA
R103	VRS-CZ1JF153D	15k 1/16W Metal Oxide	AB
R104	VRS-CZ1JF273J	27k 1/16W Metal Oxide	AA
R105	VRS-CZ1JF244D	240k 1/16W Metal Oxide	AA
R106	VRS-CZ1JF682J	6.8k 1/16W Metal Oxide	AA
R107	VRS-CZ1JF223J	22k 1/16W Metal Oxide	AA
R108	VRS-CZ1JF563J	56k 1/16W Metal Oxide	AA
R109	VRS-CZ1JF224J	220k 1/16W Metal Oxide	AA
R110	VRS-CZ1JF224J	220k 1/16W Metal Oxide	AA
R150	VRS-CZ1JF473J	47k 1/16W Metal Oxide	AA
R551	VRS-CZ1JF103J	10k 1/16W Metal Oxide	AA
R552	VRS-CZ1JF133J	13k 1/16W Metal Oxide	AA
R553	VRS-CZ1JF103J	10k 1/16W Metal Oxide	AA
R554	VRS-CZ1JF104J	100k 1/16W Metal Oxide	AA
R555	VRS-TV1JD5R6J	5.6 1/16W Metal Oxide	AA
R556	VRS-TV1JD5R6J	5.6 1/16W Metal Oxide	AA
R557	VRS-TV1JD5R6J	5.6 1/16W Metal Oxide	AA
R558	VRS-TV1JD5R6J	5.6 1/16W Metal Oxide	AA
R559	VRS-CZ1JF223J	22k 1/16W Metal Oxide	AA
R560	VRS-CZ1JF223J	22k 1/16W Metal Oxide	AA
R561	VRS-CZ1JF103J	10k 1/16W Metal Oxide	AA
R562	VRS-CZ1JF682J	6.8k 1/16W Metal Oxide	AA
R563	VRS-CZ1JF392J	3.9k 1/16W Metal Oxide	AA
R564	VRS-CZ1JF103J	10k 1/16W Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code
R565	VRS-CZ1JF912J	9.1k	1/16W Metal Oxide	AB
R566	VRS-CZ1JF104J	100k	1/16W Metal Oxide	AA
R567	VRS-CZ1JF393J	39k	1/16W Metal Oxide	AA
R568	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA
R569	VRS-CZ1JF562J	5.6k	1/16W Metal Oxide	AA
R570	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA
R571	VRS-CZ1JF474J	470k	1/16W Metal Oxide	AA
R572	VRS-CZ1JF334D	330k	1/16W Metal Oxide	AA
R573	VRS-CZ1JF221J	220	1/16W Metal Oxide	AA
R574	VRS-CZ1JF221J	220	1/16W Metal Oxide	AA
R575	VRS-CZ1JF103D	10k	1/16W Metal Oxide	AB
R576	VRS-CZ1JF122J	1.2k	1/16W Metal Oxide	AA
R577	VRS-CZ1JF472J	4.7k	1/16W Metal Oxide	AA
R578	VRS-CZ1JF222J	2.2k	1/16W Metal Oxide	AA
R579	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA
R580	VRS-CZ1JF474J	470k	1/16W Metal Oxide	AA
R581	VRS-CZ1JF682J	6.8k	1/16W Metal Oxide	AA
R582	VRS-CZ1JF682J	6.8k	1/16W Metal Oxide	AA
R583	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA
R584	VRS-CZ1JF272D	2.7k	1/16W Metal Oxide	AB
R585	VRS-CZ1JF153D	15k	1/16W Metal Oxide	AB
R586	VRS-CZ1JF244D	240k	1/16W Metal Oxide	AA
R587	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA
R588	VRS-CZ1JF471J	470	1/16W Metal Oxide	AA
R589	VRS-CZ1JF471J	470	1/16W Metal Oxide	AA

MISCELLANEOUS PARTS

	PSLDM3346TAFW	Shield	AC
	PSLDM3347TAFW	Shield	AC
FB101	RBLN-0056TAZZ	Balun, BLN-0056TA	AC
FB102	RBLN-0056TAZZ	Balun, BLN-0056TA	AC
FB103	RBLN-0056TAZZ	Balun, BLN-0056TA	AC
FB104	RBLN-0056TAZZ	Balun, BLN-0056TA	AC
FB105	RBLN-0056TAZZ	Balun, BLN-0056TA	AC
FB106	RBLN-0056TAZZ	Balun, BLN-0056TA	AC
FB107	RBLN-0056TAZZ	Balun, BLN-0056TA	AC
FB109	RBLN-0107TAZZ	Balun, BLN-0107TA	AB
FB110	RBLN-0107TAZZ	Balun, BLN-0107TA	AB
P101	QLPGN0258REZZ	Plug, 2Pin	AD
SC11	QSOCN1972TAZZ	Socket, 19Pin	AD
SC101	QSOCN0860TAZZ	Socket, 8Pin	AE
SC102	QSOCN2471TAZZ	Socket, 24Pin	AE
SC103	QSOCN2072TAZZ	Socket, 20Pin	AD
SC551	QSOCN2071TAZZ	Socket, 20Pin	AD

DUNTK2936QA01 HEAD AMP UNIT

INTEGRATED CIRCUITS

IC301	VHICXA2032Q-1	CXA2032Q, Head Amp Process	AN
IC3701	VHILB11952W-1	LB11952W	AV

TRANSISTORS

Q302	VS2SC5384C/-1	2SC5384C	AB
Q307	VS2SC5384C/-1	2SC5384C	AB
Q315	VSRN1704///-1	RN1704	AC
Q341	VS2SA1037KQ-1	2SA1037KQ	AA
Q342	VS2SA1037KQ-1	2SA1037KQ	AA
Q343	VSRT1N441U/-1	RT1N441U	AB

COILS

L303	VPCCM101K2R1N	Peaking, 100μH	AC
L304	VPCCM470KR95N	Peaking, 47μH	AC
L305	VPCQM101K4R3N	Peaking, 100μH	AB
L341	VPD9M100J1R7N	Peaking, 10μH	AC
L342	VPD9M151J170N	Peaking, 150μH	AC
L3701	VPCCM4R7MR13N	Peaking, 4.7μH	AB
L3702	VPCCM4R7MR13N	Peaking, 4.7μH	AB

CAPACITORS

C302	VCKYGCZ1CB103K	0.01 16V Ceramic	AB
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Ref. No.	Part No.	★	Description	Code
C304	VCKYGCZ1CB103K	0.01	16V Ceramic	AB
C305	VCSATA1AJ156M	15	10V Tantalum	AD
C306	VCSATA1AJ156M	15	10V Tantalum	AD
C309	VCKYGCZ1CB103K	0.01	16V Ceramic	AB
C310	VCKYGCZ1CB103K	0.01	16V Ceramic	AB
C311	VCKYGCZ1CB103K	0.01	16V Ceramic	AB
C313	VCKYGCZ1CB103K	0.01	16V Ceramic	AB
C314	VCKYGCZ1CB103K	0.01	16V Ceramic	AB
C315	VCKYCY1CB104K	0.1	16V Ceramic	AB
C318	VCKYCY1EB103K	0.01	25V Ceramic	AA
C319	VCKYGCZ1CB103K	0.01	16V Ceramic	AB
C320	VCKYGCZ1CB223K	0.022	16V Ceramic	AC
C321	VCSATA1AJ156M	15	10V Tantalum	AD
C322	VCKYGCZ1CB223K	0.022	16V Ceramic	AC
C323	VCKYGCZ1CB103K	0.01	16V Ceramic	AB
C324	VCKYGCZ1AB104K	0.1	10V Ceramic	AB
C325	VCSATA1AJ156M	15	10V Tantalum	AD
C326	VCKYCY1EB103K	0.01	25V Ceramic	AA
C340	VCCCGZ1HH101J	100p	50V Ceramic	AB
C341	VCCCGZ1HH151J	150p	50V Ceramic	AB
C342	VCCCGZ1HH101J	100p	50V Ceramic	AB
C344	VCKYCY1CB104K	0.1	16V Ceramic	AB
C345	VCKYGCZ1CB103K	0.01	16V Ceramic	AB
C346	VCKYGCZ1HB102K	1000p	50V Ceramic	AB
C347	VCSATA1AJ156M	15	10V Tantalum	AD
C349	VCCCGZ1HH680J	68p	50V Ceramic	AB
C3701	VCKYGCZ1EB682K	6800p	25V Ceramic	AB
C3702	VCKYGCZ1EB682K	6800p	25V Ceramic	AB
C3703	VCKYGCZ1AB104K	0.1	10V Ceramic	AB
C3704	VCKYGCZ1AB104K	0.1	10V Ceramic	AB
C3705	VCKYGCZ1HB102K	1000p	50V Ceramic	AB
C3706	VCKYGCZ1HB102K	1000p	50V Ceramic	AB
C3707	VCKYGCZ1AB104K	0.1	10V Ceramic	AB
C3708	VCKYGCZ1AB104K	0.1	10V Ceramic	AB
C3709	VCKYCY1AF105Z	1	10V Ceramic	AC
C3710	VCKYGCZ1AB104K	0.1	10V Ceramic	AB
C3711	VCKYCY1AF105Z	1	10V Ceramic	AC
C3712	VCKYGCZ1AB104K	0.1	10V Ceramic	AB
C3713	VCKYGCZ1AB104K	0.1	10V Ceramic	AB
C3714	VCSATA1CJ106M	10	16V Tantalum	AD
C3715	VCKYGCZ1AB104K	0.1	10V Ceramic	AB
C3716	VCKYGCZ1AB104K	0.1	10V Ceramic	AB
C3717	VCKYCY1AF105Z	1	10V Ceramic	AC
C3718	VCKYGCZ1AB104K	0.1	10V Ceramic	AB
C3719	VCKYGCZ1EB682K	6800p	25V Ceramic	AB
C3720	VCKYGCZ1AB104K	0.1	10V Ceramic	AB
C3721	VCKYGCZ1EB682K	6800p	25V Ceramic	AB
C3722	VCKYGCZ1EB682K	6800p	25V Ceramic	AB
C3723	VCKYCY1CF474Z	0.47	16V Ceramic	AB
C3724	VCKYCY1CF474Z	0.47	16V Ceramic	AB
C3725	VCKYCY1AF105Z	1	10V Ceramic	AC
C3726	VCKYCY1CF474Z	0.47	16V Ceramic	AB
C3727	VCCCGZ1HH101J	100p	50V Ceramic	AB
C3728	VCCCGZ1HH101J	100p	50V Ceramic	AB
C3729	VCKYGCZ1HF103Z	0.01	50V Ceramic	AB
C3730	VCKYGCZ1AB473K	0.047	10V Ceramic	AB
C3731	VCKYGCZ1EB472K	4700p	25V Ceramic	AB
C3732	VCKYGCZ1AB104K	0.1	10V Ceramic	AB
C3733	VCSATA1CJ106M	10	16V Tantalum	AD
C3734	VCSATA1CJ106M	10	16V Tantalum	AD

RESISTORS

R301	VRS-CZ1JF473J	47k	1/16W Metal Oxide	AA
R302	VRS-CY1JF273J	27k	1/16W Metal Oxide	AA
R303	VRS-CZ1JF152J	1.5k	1/16W Metal Oxide	AA
R305	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA
R307	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA
R308	VRS-CZ1JF392J	3.9k	1/16W Metal Oxide	AA
R313	VRS-CZ1JF183J	18k	1/16W Metal Oxide	AA
R316	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA
R317	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA
R321	VRS-CZ1JF152J	1.5k	1/16W Metal Oxide	AA
R323	VRS-CZ1JF473J	47k	1/16W Metal Oxide	AA
R329	VRS-CZ1JF471J	470	1/16W Metal Oxide	AA
R331	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code
R335	VRS-CY1JF273J	27k	1/16W Metal Oxide	AA
R337	VRS-CZ1JF181J	180	1/16W Metal Oxide	AA
R338	VRS-CZ1JF181J	180	1/16W Metal Oxide	AA
R340	VRS-CZ1JF680J	68	1/16W Metal Oxide	AB
R341	VRS-CZ1JF272D	2.7k	1/16W Metal Oxide	AB
R342	VRS-CZ1JF271J	270	1/16W Metal Oxide	AA
R343	VRS-CZ1JF221J	220	1/16W Metal Oxide	AA
R344	VRS-CZ1JF223J	22k	1/16W Metal Oxide	AA
R345	VRS-CZ1JF333J	33k	1/16W Metal Oxide	AA
R359	VRS-CY1JF105J	1M	1/16W Metal Oxide	AA
R360	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA
R361	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA
R362	VRS-CY1JF182F	1.8k	1/16W Metal Oxide	AA
R363	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA
R390	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA
R3701	VRS-CZ1JF182J	1.8k	1/16W Metal Oxide	AA
R3702	VRS-CZ1JF122J	1.2k	1/16W Metal Oxide	AA
R3703	VRS-CZ1JF182J	1.8k	1/16W Metal Oxide	AA
R3704	VRS-CZ1JF122J	1.2k	1/16W Metal Oxide	AA
R3705	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA
R3706	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA
R3707	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA
R3708	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA
R3715	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA
R3716	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA
R3717	VRS-TV1JD1R0J	1	1/16W Metal Oxide	AA
R3718	VRS-TV1JD1R0J	1	1/16W Metal Oxide	AA
R3719	VRS-TV1JD1R0J	1	1/16W Metal Oxide	AA
R3720	VRS-TV1JD1R0J	1	1/16W Metal Oxide	AA
R3721	VRS-CZ1JF473J	47k	1/16W Metal Oxide	AA
R3722	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA
R3723	VRS-CZ1JF105J	1M	1/16W Metal Oxide	AA
R3724	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA
R3725	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA
R3726	VRS-CZ1JF102J	1k	1/16W Metal Oxide	AA
R3727	VRS-CZ1JF473J	47k	1/16W Metal Oxide	AA
R3728	VRS-CZ1JF473J	47k	1/16W Metal Oxide	AA
R3729	VRS-CZ1JF223J	22k	1/16W Metal Oxide	AA
R3731	VRS-CZ1JF103J	10k	1/16W Metal Oxide	AA
R3732	VRS-CZ1JF393J	39k	1/16W Metal Oxide	AA
R3733	VRS-CZ1JF393J	39k	1/16W Metal Oxide	AA

MISCELLANEOUS PARTS

	PSLDM0106AJFW	Shield	AC
CN3701	QSOCN1085TAZZ	Socket, 10Pin	AE
CN3702	QSOCN1560TAZZ	Socket, 15Pin	AE
CN3703	QSOCN1871TAZZ	Socket, 18Pin	AE
SC301	QSOCN0985TAZZ	Socket, 9Pin	AE
SC304	QSOCN0671TAZZ	Socket, 6Pin	AC
SC305	QCNCW7068TAZZ	Connector, 70Pin	AG

**DUNTK2800PM10
CCD UNIT****INTEGRATED CIRCUIT**

IC2	VHIM24C08W6-1	M24C08W6, E ² PROM	AH
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TRANSISTOR

Q1	VS2SC4627CD-1	2SC4627CD	AB
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CAPACITORS

C1	VCKYCY1HB102K	1000p 50V Ceramic	AA
C2	VCCCCY1HH2R0C	2p 50V Ceramic	AA
C3	VCKYTV1HF103Z	0.01 50V Ceramic	AA
C4	VCCCCY1HH221J	220p 50V Ceramic	AA
C5	VCKYTQ1CF225Z	2.2 16V Ceramic	AB
C6	VCKYCY1HF103Z	0.01 50V Ceramic	AA

RESISTORS

R1	VRS-CY1JF105J	1M 1/16W Metal Oxide	AA
R2	VRS-CY1JF101J	100 1/16W Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code
R3	VRS-CY1JF472J	4.7k	1/16W Metal Oxide	AA
R4	VRS-CY1JF101J	100	1/16W Metal Oxide	AA
R5	VRS-CY1JF105J	1M	1/16W Metal Oxide	AA

MISCELLANEOUS PART

SC1	QSOCN1986TAZZ	Socket, 19Pin	AF
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Ref. No.	Part No.	★	Description	Code
MECHANISM PARTS				
300	LCHSM0163GEZZ		Main Chassis Ass'y	AW
301	NGERH1280GEZZ		Main Cam	AD
302	NGERH1281GEZZ		Sub-Cam	AD
303	MLEVF0470GEFW		Eject Lever	AD
304	MLEVF0492GEFW		M Function Lever	AF
305	LHLDZ1966GEZZ		L Block Holder	AD
306	NGERW1064GEZZ		Worm Pulley	AC
307	NGERW1065GEZZ		Worm	AD
308	NGERH1282GEZZ		Worm Wheel	AC
309	NGERH1283GEZZ		Lo Relay Gear	AC
310	MARMM0126GEZZ		S Lo Arm Ass'y	AF
311	MARMM0128GEZZ		T Lo Arm Ass'y	AG
312	LANGA0069GEFW		S Lo Arm Retainer	AD
313	PGIDM0146GEZZ		Sup Rail	AD
314	PGIDM0171GEZZ		Tu Rail	AD
315	NGERH1284GEZZ		Sup Lo Gear	AC
316	NGERH1285GEZZ		Tu Lo Gear	AC
317	MSPRD0167GEZZ		S Lo Arm Double-Acting Spring	AE
318	MSPRT0407GEZZ		T Lo Arm Double-Acting Spring	AC
319	MLEVP0310GEZZ		HC Lever Ass'y	AF
321	MSLIF0074GEFW		Ten Arm Operation Lever	AD
322	PGIDM0148GEZZ		Ten Arm Guide	AC
323	NGERH3061GEZZ		Segment Gear	AD
324	MLEVF0472GEZZ		Tu Guide Ass'y	AC
325	PGIDP0027GEZZ		Tu Guide	AE
326	MSPRC0183GEZZ		Tu Guide Spring	AA
327	MSPRC0184GEZZ		Si Roller Spring	AA
328	MSPRC0208GEZZ		Tu Guide Lever Spring	AC
329	CCHSS0049GE01		Slide Chassis Ass'y	AR
330	MLEVF0495GEZZ		Ten Arm Ass'y	AC
331	LBNDK3023GEZZ		Ten Band Ass'y	AF
332	NIDR-0016GEZZ		Swing Gear Ass'y	AF
333	NGERH1286GEZZ		Driving Gear	AC
334	NGERH1287GEZZ		Pulley Gear	AD
335	NPLYV0157GEZZ		Relay Pulley	AD
336	MLEVP0284GEZZ		S Brake	AC
337	NGERH1288GEZZ		Tu Brake Gear	AC
338	MLEVP0285GEZZ		Tu Main Brake	AC
339	MLEVP0286GEZZ		Tu Sub-Brake	AC
340	MSPRD0169GEZZ		Tu Brake Spring	AD
341	LHLDZ2053GEZZ		Light Guide Holder Ass'y	AF
342	LANGG9102GEFW		Down Guide	AF
343	MSPRT0408GEZZ		Tension Spring	AD
344	MSPRD0186GEZZ		S Brake Spring	AD
345	CDRMU0032GE02		Upper Drum Ass'y	BF
346	PGIDM0154GEZZ		Tape Guide	AB
348	QBRSK0039GEZZ		Earth Spring	AD
349	PGIDM0182GEZZ		Drum Base	AF
350	DDRML0020GE01		Lower Drum Ass'y	AY
351	RMOTP1137GEZZ		Drum Motor	AS
352	PSPAQ0010GEZZ		Gap Adjusting Shim	AC
353	NRTR-0096GEZZ		R Tr Rotor Ass'y	AP
354	MSPRC0209GEZZ		Gr Adjusting Spring	AC
355	LPOLM0058GEZZ		S Pole Base	AK
356	LPOLM0059GEZZ		T Pole Base	AK
357	NDAiV1071GEZZ		Sup Reel Support	AG
358	NDAiV1072GEZZ		Tu Reel Support	AG
359	MLEVF0517GEZZ		Pinch Lever Ass'y	AS
360	NBLTT0012GEZZ		Timing Belt S	AE
361	NBLTT0013GEZZ		Timing Belt L	AE
362	NROLP0127GEZZ		Guide Roller Ass'y	AG
363	NROLP0129GEZZ		Si Roller Ass'y	AG
364	QPWBH5428GEZZ		Mode FPC	AK
365	CPWBN5877GE01		Sensor Ass'y	AT
366	QSW-M0042GEZZ		Recognition SW	AH
367	RDTCH0037GEZZ		Dew Sensor	AF
368	RMOTV1020GEZZ		Capstan Motor	AZ
369	RMOTM1075GEZZ		Load Motor	AL
370	QSW-R0038GEZZ		Mode SW	AG
372	DUNT2936QA01		H/A PWB	—

Ref. No.	Part No.	★	Description	Code
374	TLABH0584GEZZ		Caution Label	AB
375	PSHEM0014GEZZ		Counter Balance	AC
376	PSHEP0013GEZZ		Interruption Sheet	AC
200	XAPSF17P03200		Screw M1.7x3.2	AA
201	LX-XZ3036GEFP		Screw M2.0x6.0	AD
202	LX-BZ3175GEFN		Screw M1.7x4.0	AC
203	LX-BZ3163GEFN		Screw M1.7x2.5	AC
204	LX-HZ3074GEFN		Screw M1.7x5.3 S Tight	AA
205	LX-BZ3177GEFF		Screw M1.4x1.5	AB
206	LX-BZ3132GEFF		Screw M1.4x1.5xD3.5	AA
207	LX-BZ3178GEZZ		Screw M1.4x1.5xD4.0	AD
208	LX-HZ3083GEFF		Screw M1.4x2.5 S Tight	AB
209	LX-HZ3077GEFN		Screw M1.4x3.0 S Tight	AA
211	LX-HZ3084GEFF		Screw M1.4x4.0 S Tight	AC
212	LX-HZ3116GEFD		Screw M1.4x3.2 S Tight	AB
213	LX-NZ3053GEZZ		Screw M1.4 Nut	AC
214	LX-WZ1076GE02		Washer D0.8xD3.0x0.2t Plastics	AA
215	LX-WZ1075GE02		Washer D2.1xD5.0x0.25t Plastics	AA
216	XWHJZ12-02040		Washer D1.2xD4.0x0.25t Plastics	AC
217	QCNW-1714TAZZ		Ground Lead Wire	AC

CABINET PARTS LIST

1	DCABA6183LM03	V Frame Service	AL
1-2	PSPAG0095TAZZ	VCR Lid Cushion	AA
1-3	TLABH0355TAZZ	Lithium Label	AB
1-4	LHLDDB1027TAZZ	Lithium Holder	AD
2	DCABB6216LM01	L Cabinet Service (AH30S/H/E/EX)	AS
2	DCABB6219LM01	L Cabinet Service (A10S/H/E/EX/EX)	AS
2-2	QEARP0262TAFW	LCD Earth Panel	AE
2-3	TLABH0318TAZZ	Turn Caution Label	AB
2-4	GCOVH1251TASA	Jack Cover	AD
2-5	GCOVA1535TAZZ	Remote Control Receptor Cover	AD
2-6	GCOVA1648TAZZ	LED Cover	AC
3	CCABC6090TAK7	Camera Front Cabinet Ass'y	AT
3-2	GCOVA1654TASA	Hood Cover	AF
3-3	GCOVA1653TASA	Lens Hood	AK
4	DCABD6104LM02	Camera Rear Cabinet Service(A10S/H/E/EX/EX)	AP
4	DCABD6104LM01	Camera Rear Cabinet Service(AH30S/H/E/EX)	AP
4-2	JBNTN-0276TASA	Camera Button (A10S/H/E/EX/EX)	AD
4-2	JBNTN-0276TASB	Camera Button (AH30S/H/E/EX)	AF
5	DFTAC1304LM02	VCR Lid Service (A10S/H/E/EX/EX)	AS
5	DFTAC1302LM03	VCR Lid Service (AH30S/H/E/EX)	AS
5-2	HDECP0060TASA	VCR Lid Decoration Plate (A10S/H/E/EX/EX)	AE
5-2	HDECP0059TASA	VCR Lid Decoration Plate (AH30S/H/E/EX)	AE
5-3	LANGK0533TAFJ	VCR Lid Spring Angle	AC
5-4	LANGK0400TAFW	Eject Fitting	AD
5-5	MSPRD0070TAFJ	VCR Lid Spring	AC
6	DCOVA1647LM03	Camera Side Cover Service	AR
6-2	NSFTZ0049TAFW	Battery Lid Axle	AC
6-3	MSPRD0050TAFJ	Battery Lid Open/Close Spring	AC
6-5	GFTAB1066TAKA	Battery Lid	AE
6-6	HDECP0045TASA	Battery Decoration Plate	AC
6-7	MSPRC0102TAFJ	Battery Lock Lever Spring	AA
6-8	MLEVP0030TASA	Battery Lid Open/Close Lever	AC

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
6-9	LHLDZ1532TAZZ		Battery Lock Holder	AC	52	RUNTK0354TAZZ		Lithium Battery Unit	AF
6-10	MLEVP0044TASA		Battery Lock Lever	AC	54	GCOVA1651TAKA		Microphone Cover	AG
6-11	MSPRC0101TAFJ		Battery Push-out Spring	AD	55	QPWBH2815TAZZ		CCD FPC	AE
6-12	LHLDZ1445TAZZ		Lens Holder	AD	56	CCOVA1652LMV2		AV Unit Cover Service	AD
6-13	LANGK0398TA00		Battery Lid Angle Fitting	AH	56-2	HINDP0220TASA		Video indication Panel	AC
6-14	UBNDT0122TAZZ		Hand Strap	AH	57	GCOVA1649TASA		Adjust Hole Cover	AC
7	DCOVA1650LM01		Tilt Service	AP	58	RUNTK0355TAZZ		AV Jack Unit	AT
7-2	PSPAZ0190TAZZ		Tilt Spacer	AE	59	RUNTK0356TAZZ		6-cell Detection Unit	AG
7-3	GCOVA1537TAKA		Tilt Frame V	AL	60	PSHEP0159TAZZ		Wire Fix Sheet	AB
7-4	PSPAZ0189TAZZ		Rotation Spacer	AD	62	PSPAZ0331TAZZ		Microphone Spacer	AB
7-5	LANGH0071TAFW		Stopper Fitting	AD	63	QEARP0261TAFW		Earth Plate	AD
8	LHLDZ1533TAZZ		LCD Holder	AH				(A10S/H/AH30S/H)	
9	PSHEP0044TAZZ		Prism Sheet	AG	a	LX-HZ0018TAFN		M2x6 Tapping, Silver	AA
10	PSHEP0045TAZZ		Diffusion Sheet	AD	b	LX-HZ0018TAFN		M2x6 Tapping, Black	AA
11	PGIDM0037TAZZ		Light Guide Plate	AG	c	LX-HZ0045TAFN		M2x4 Tapping, Silver	AA
12	PMiR-0021TAZZ		Reflection Sheet	AC	d	XIPSF20P04000		M2x4 Small Screw, Black	AA
△ 13	CLMPV0048RM05		Lamp Inverter Unit	BA				Zinc Plating	
14	CPNLC0047RM05		LCD Panel	BY	e	LX-BZ0191TAFD		M2 Special Screw	AC
15	PZETV0343TAZZ		LCD Lead Sheet	AA	f	XIPSD20P03000		M2x3 Screw	AA
17	TLABM2093TAZZ		Model Label(AH30S)	AD	g	LX-UZ0016TAFD		M2x5 Special Screw	AA
17	TLABM2094TAZZ		Model Label(AH30H)	AE	h	LX-BZ0200TAFD		M2x7 Special Screw	AB
17	TLABM2088TAZZ		Model Label(A10S)	AD	i	XIPSN20P04000		M2x4 Small Screw, Silver	AA
17	TLABM2089TAZZ		Model Label(A10H)	AE	k	LX-HZ0063TAFN		M1.7x6 Tapping, Silver	AA
17	TLABM2090TAZZ		Model Label(A10E)	AE					
17	TLABM2091TAZZ		Model Label(A10EW)	AE					
17	TLABM2092TAZZ		Model Label(A10EX)	AE					
17	TLABM2095TAZZ		Model Label(AH30E)	AE					
17	TLABM2097TAZZ		Model Label(AH30EX)	AE					
18	CLNSA0127TA01		Lens Unit	BS					
19	GFTAC1241TASA		Cassette Compartment Cover	AD					
20	DUNTK2950QA10		VCR Unit(A10S)	—					
20	DUNTK2950QA11		VCR Unit(A10E/EW/EX)	—					
20	DUNTK2950QA12		VCR Unit(AH30S)	—					
20	DUNTK2950QA13		VCR Unit(AH30E/EX)	—					
20	DUNTK2950QA15		VCR Unit(A10H)	—					
20	DUNTK2950QA16		VCR Unit(AH30H)	—					
21	DUNTK2935QA10		CAMERA Unit	—					
			(A10S/H/AH30S/H)						
21	DUNTK2935QA11		CAMERA Unit	—					
			(A10E/EW/EX/AH30E/EW)						
22	QPWBH2937TAZZ		Tilt FPC	AQ					
23	LHLDW1038TA00		FPC Holder	AC					
24	RUNTK0353TAZZ		VCR Operation Unit	AS					
25	QTANZ0146TAZZ		Battery Terminal Unit	AK					
26	QSW-Z0285TAZZ		Power/Zoom Unit	AR					
27	LHLDZ1452TAZZ		Power Lock Holder	AC					
28	MSPRC0083TAFJ		Power Lock Spring	AA					
29	JBTN-0277TASA		Power Button	AD					
			(A10S/H/E/EW/EX)						
29	JBTN-0277TASB		Power Button	AF					
			(AH30S/H/E/EX)						
30	LHLDZ1451TAZZ		Power Holder	AC					
31	JKNBP0152TASA		Power Knob	AD					
32	JKNBP0153TASA		Zoom Knob	AD					
			(A10S/H/E/EW/EX)						
32	JKNBP0153TASB		Zoom Knob	AF					
			(AH30S/H/E/EX)						
33	LHLDZ1453TASA		Zoom Knob Holder	AD					
34	JKNBP0154TASA		Open Knob	AC					
35	PSPAZ0191TAZZ		Microphone Spacer	AA					
36	RMICC0090TAZZ		Microphone	AN					
37	MSPRT0034TAFJ		Lid Lock Spring	AC					
38	LHLDZ1454TA00		Lid Lock	AD					
39	NSFTZ0084TAFW		VCR Lid Shaft	AD					
40	PSPAZ0318TAZZ		Microphone Ware Spacer	AD					
41	LHLDZ1450TAZZ		Speaker Holder	AC					
42	VSP0020P-94WN		Speaker	AL					
43	PSPAG0103TAZZ		Speaker Spacer	AC					
46	DCOVA3056LM01		Speaker Cover	AE					
47	PSPAH0031TAZZ		Wire Holder	AB					
48	QSW-Z0342TAZZ		Turn/Eject SW	AH					
49	MLEVP0031TAZZ		Eject Lever	AC					
50	LANGK0399TAZZ		Tripod Angle	AH					
51	PSHEP0160TAZZ		Microphone Lead Sheet	AC					

Ref. No.	Part No.	★	Description	Code
CASSETTE HOUSING PARTS				
400	CHLDX3077GE01		Cassette Compartment Ass'y	AY
401	MSPRT0414GEZZ		Up Main Spring	AD
402	MROD-0014GEFJ		Damper rod	AG
403	PDMP-0013GEZZ		Cassette Compartment Damper	AG

CAMERA UNIT PARTS				
1	PCOVM8016TA00		Dustproof Rubber	AC
2	LANGK0324TAFW		CCD Retaining Plate	AG
3	PFILW0060TAZZ		Optical Filter	AS
4	VHILZ2423H5-1		CCD Sensor	BE
5	DUNTK2800PM10		CCD PWB Unit	—
6	LX-HZ0013TAFW		Screw (1.7 X 6)	AA

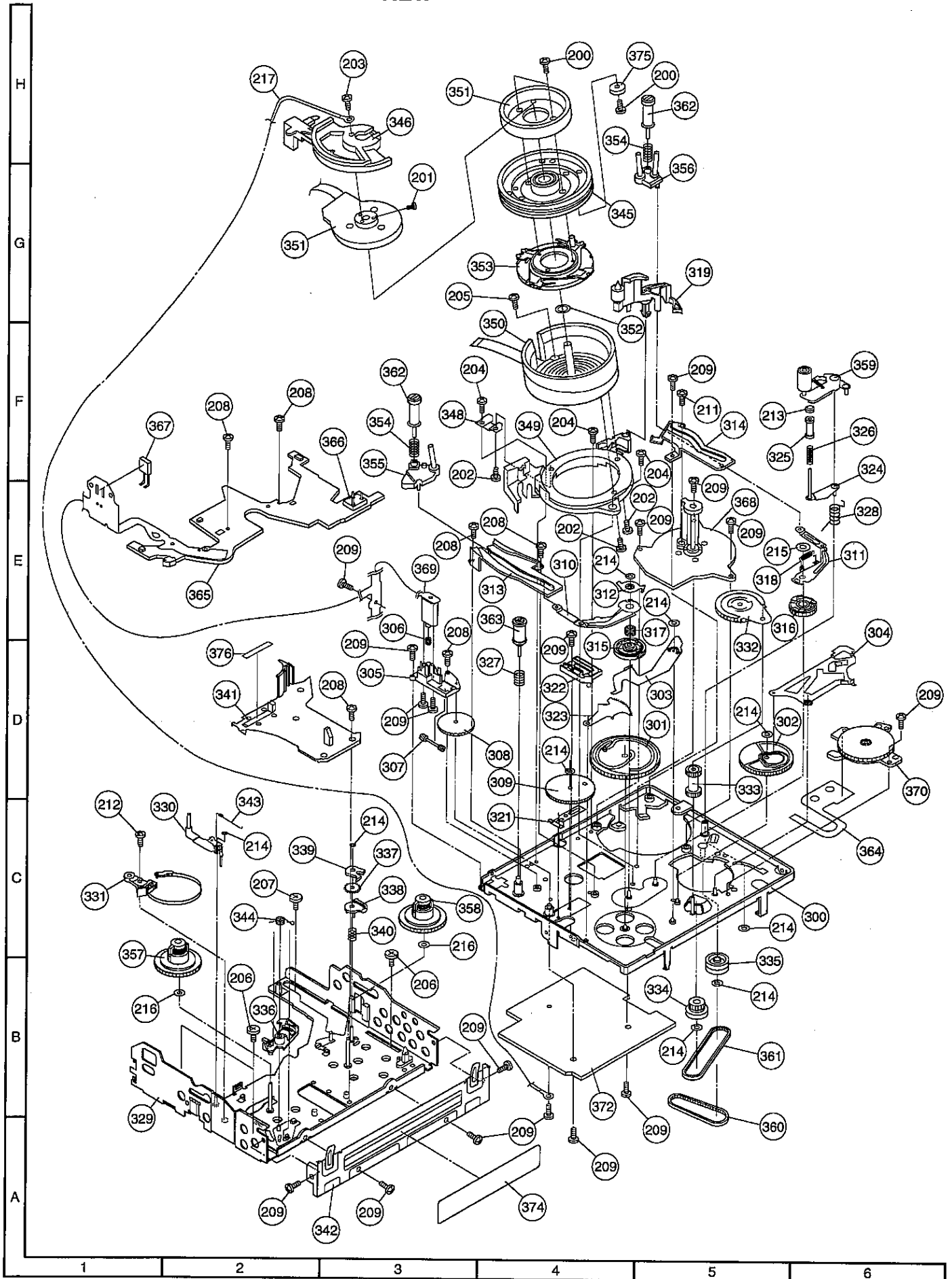
Ref. No.	Part No.	★	Description	Code
SUPPLIED ACCESSORIES				

ACCESSORIES				
△	GCOVH1225TASA		Lens Cap	AG
	QACCB0016TAZZ		AC Cable (A10H/EW/AH30H)	AV
△	QACCK0002TAZZ		AC Cable (A10S/E/AH30S/E)	AM
△	QACCL0020TAZZ		AC Cable (A10EX/AH30EX)	AP
	QCNW-1962TAN0		A/V Cable (with Ferrite Core)	AK
	RRMCG0084TASA		Infrared Remote Control (AH30S/H/E/EX)	AL
	RRMCG0085TASA		Infrared Remote Control (A10S/H/E/EX)	AL
	TINSE0154TAZZ		Service Guide (A10H/AH30H)	AA
	TINSE0382TAZZ		Quick Guide (A10H/AH30H)	AG
	TINSE0370TAZZ		Operation Manual (A10H)	AL
	TINSE0371TAZZ		Operation Manual (AH30H)	AL
	TINSL0227TAZZ		Operation Manual (A10E/EX)	AW
	TINSL0228TAZZ		Operation Manual (AH30E/EX)	AW
	TINSL0230TAZZ		Operation Manual (A10EW)	AW
	TINSL0220TAZZ		Operation Manual 1 (AH30S)	AW
	TINSL0221TAZZ		Operation Manual 2 (AH30S)	AW
	TINSL0225TAZZ		Operation Manual 1 (A10S)	AW
	TINSL0226TAZZ		Operation Manual 2 (A10S)	AW
△	UADP-0313TAZZ		AC Adapter	BD
	UBNDS0010TASA		Shoulder Strap	AH
	GCOVH1234TAZZ		Sun Hood (A10S/H/EX/AH30S/H/EX)	AV
	UBATL0011TAZZ		Lithium Battery	AE
	UBATM0011TAZZ		Battery	BC
	QPLGA0010GEZZ		AC Plug Converter (A10E/AH30E)	AF

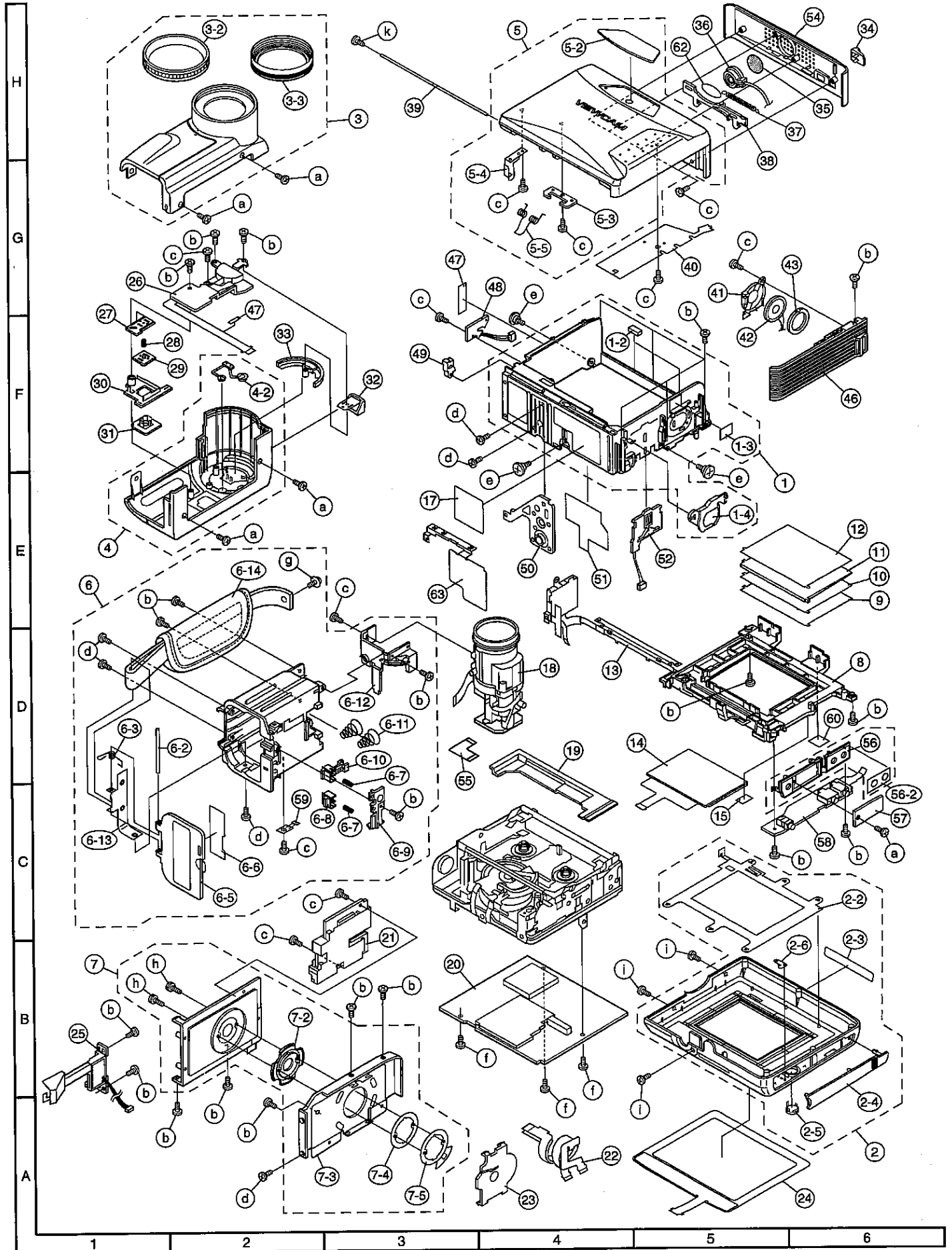
ACCESSORIES (NOT REPLACEMENT ITEM)				
TGANE0050TAZZ			Guarantee Card (A10EX/AH30EX)	—
TGANE0057TAZZ			Guarantee Card (A10H/AH30H)	—
TGANL0004TAZZ			Guarantee Card (A10S/H/AH30S/H)	—

Ref. No.	Part No.	★	Description	Code
PACKING PARTS				
(NOT REPLACEMENT ITEM)				
SPAKC7521TAZZ			Packing Case(A10S)	—
SPAKC7522TAZZ			Packing Case(A10H)	—
SPAKC7523TAZZ			Packing Case(A10E/EX)	—
SPAKC7524TAZZ			Packing Case(A10EW)	—
SPAKC7525TAZZ			Packing Case(AH30S)	—
SPAKC7526TAZZ			Packing Case(AH30H)	—
SPAKC7527TAZZ			Packing Case(AH30E/EX)	—
SPAKP6049TAZZ			HOSO-PP	—
SSAKA0087TAZZ			Polyethylene Bag	—
			(A10H/E/EW/EX/AH30H/E/EX)	—
SSAKA0088TAZZ			Polyethylene Bag	—
			(A10S/AH30S)	—
SPAKA6343TAZZ			Packing ADD.	—
SPAKA6344TAZZ			Packing ADD.	—
SPAKA6345TAZZ			Packing ADD.	—
SPAKF0266TAZZ			AC Adapter Packing	—

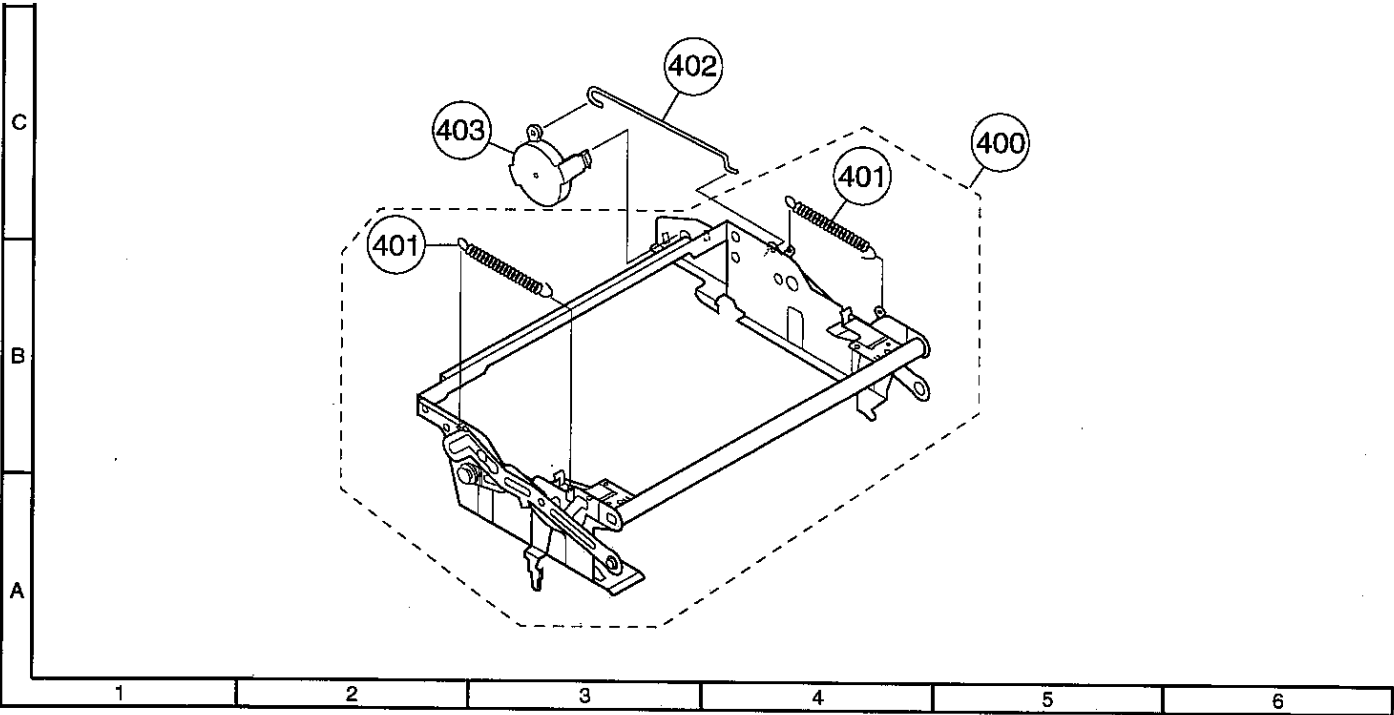
MECHANISM CHASSIS EXPLODED VIEW



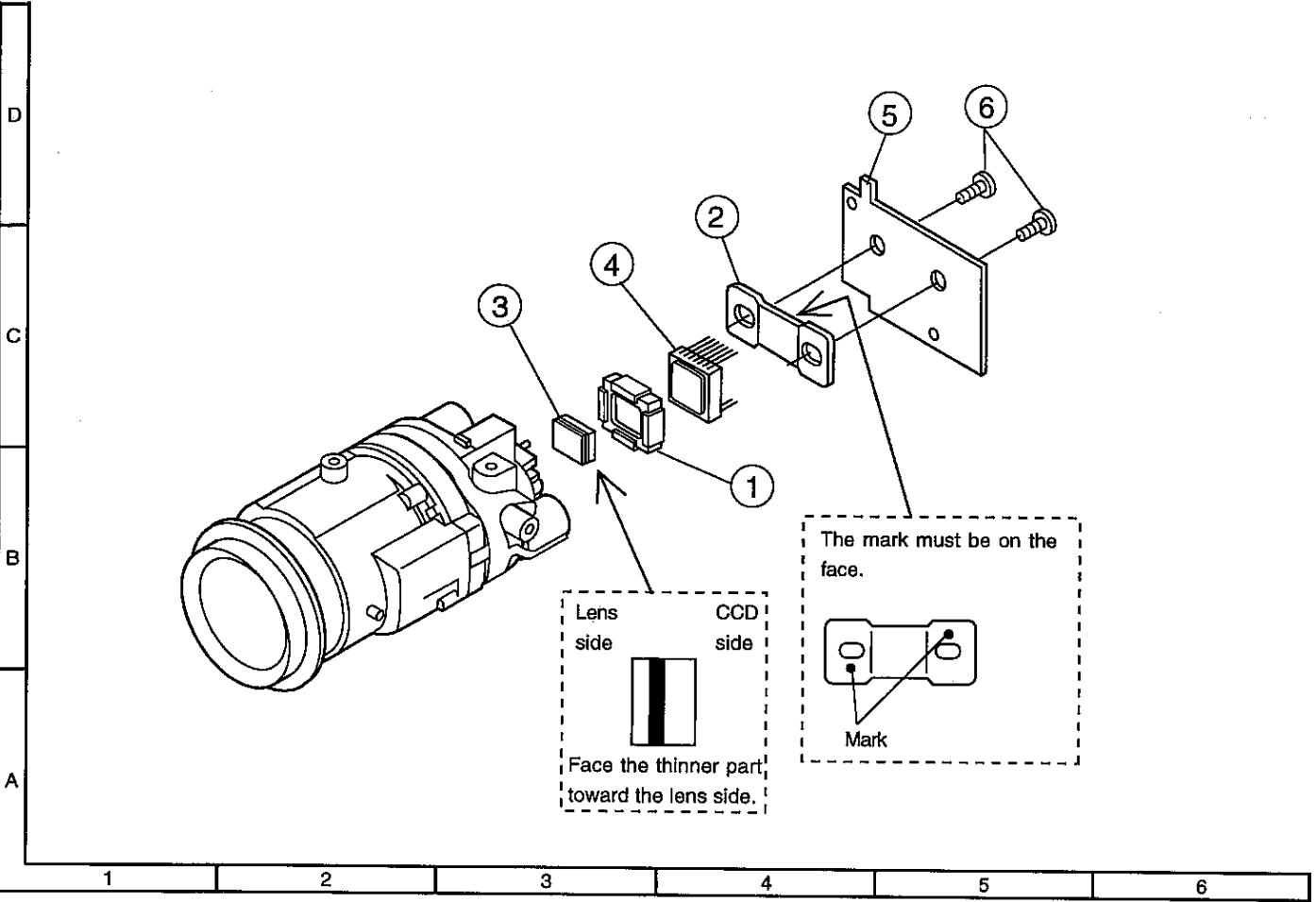
CABINET EXPLODED VIEW



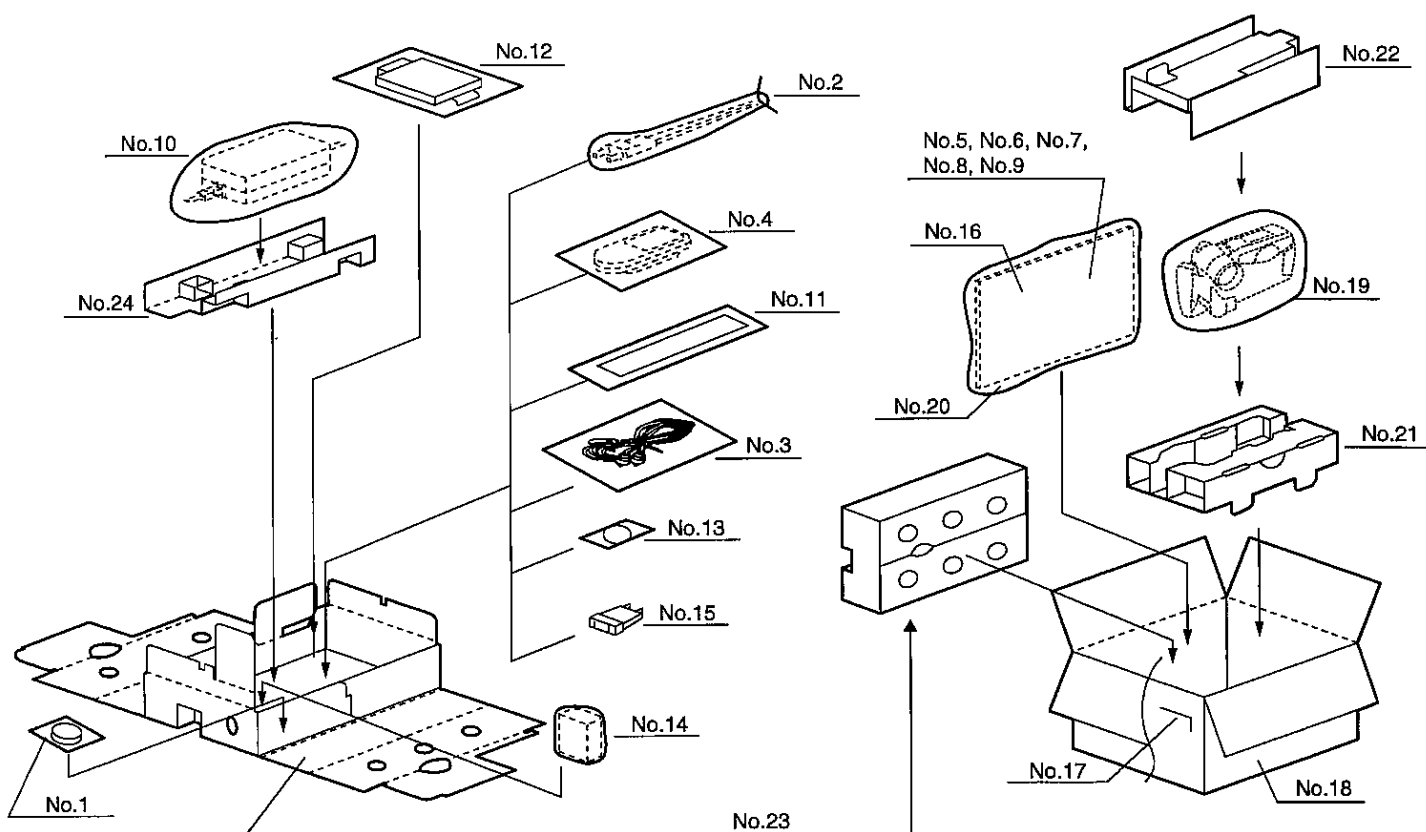
CASSETTE HOUSING CONTROL UNIT EXPLODED VIEW



CAMERA UNIT EXPLODED VIEW



11. PACKING OF THE SET



ACCESSORIES

No.	Model	Parts Code	Description	Remarks
1	- Common parts -	GCOVH1225TASA	Lens Cap	
2	A10H/EW/AH30H	QACCB0016TAZZ	AC Cable	⚠
	A10S/E/AH30S/E	QACCK0002TAZZ	AC Cable	⚠
	A10EX/AH30EX	QACCL0020TAZZ	AC Cable	⚠
3	- Common parts -	QCNW-1962TAN0	A/V Cable(with Ferrite Core)	
4	AH30S/H/E/EX	RRMCG0084TASA	Infrared Remote Control	
	A10S/H/E/EW/EX	RRMCG0085TASA	Infrared Remote Control	
5	A10H/AH30H	TINSE0154TAZZ	Service Guide	
6	A10H/AH30H	TINSE0382TAZZ	Quick Guide	
7	A10H	TINSE0370TAZZ	Operation Manual	
	AH30H	TINSE0371TAZZ	Operation Manual	
	A10E/EX	TINSL0227TAZZ	Operation Manual	
	AH30E/EX	TINSL0228TAZZ	Operation Manual	
	A10EW	TINSL0230TAZZ	Operation Manual	
8	AH30S	TINSL0220TAZZ	Operation Manual 1	
	A10S	TINSL0225TAZZ	Operation Manual 1	
9	AH30S	TINSL0221TAZZ	Operation Manual 2	
	A10S	TINSL0226TAZZ	Operation Manual 2	
10	- Common parts -	UADP-0313TAZZ	AC Adapter	⚠
11	- Common parts -	UBNDS0010TASA	Shoulder Strap	
12	A10S/H/EX/AH30S/H/EX	GCOVH1234TAZZ	Sun Hood	
13	- Common parts -	UBATL0011TAZZ	Lithium Battery	
14	- Common parts -	UBATM0011TAZZ	Battery	
15	A10E/AH30E	QPLGA0010GEZZ	AC Plug Converter	

ACCESSORIES (NOT REPLACEMENT ITEM)

No.	Model	Parts Code	Description	Remarks
16	A10EX/AH30EX	TGANE0050TAZZ	Guarantee Card	★
	A10H/AH30H	TGANE0057TAZZ	Guarantee Card	★
	A10S/H/AH30S/H	TGANL0004TAZZ	Guarantee Card	★
17	- Common parts -	TLABK0001TAZZ	No. Card	★

PACKING PARTS (NOT REPLACEMENT ITEM)

No.	Model	Parts Code	Description	Remarks
18	A10S	SPAKC7521TAZZ	Packing Case	★
	A10H	SPAKC7522TAZZ	Packing Case	★
	A10E/EX	SPAKC7523TAZZ	Packing Case	★
	A10EW	SPAKC7524TAZZ	Packing Case	★
	AH30S	SPAKC7525TAZZ	Packing Case	★
	AH30H	SPAKC7526TAZZ	Packing Case	★
	AH30E/EX	SPAKC7527TAZZ	Packing Case	★
19	- Common parts -	SPAKP6049TAZZ	HOSO-PP	★
20	A10H/E/EW/EX/ AH30H/E/EX	SSAKA0087TAZZ	Polyethylene Bag	★
	A10S/AH30S	SSAKA0088TAZZ	Polyethylene Bag	★
21	- Common parts -	SPAKA6343TAZZ	Packing ADD.	★
22	- Common parts -	SPAKA6344TAZZ	Packing ADD.	★
23	- Common parts -	SPAKA6345TAZZ	Packing ADD.	★
24	- Common parts -	SPAKF0266TAZZ	AC Adapter Packing	★

MARK ★ Not Replacement Item

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